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4	Huawei Services (Hong Kong) Co., Limited	MoU for training session with hands on experience	21-31
5	M/s (APEX) Aptitude Experts	MoU for Non-Technical Training	32-33
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9	Andhra Pradesh Information Technology Academy(APITA)	MoU for Student Internship	46-65
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18	D.Parajuli, Tribhuvan University		
19	Rajesh Kumar, Shoolini University		
20	Bal Krishnah, Bahra University		
21	K.Samantha, Bahra University		
22	Ritesh Varma, Shoolini University		
23	T.Gunavarardhana Naidu, Aditya Institute of Technology & Management		
24	R.Venkata Ramana. Andhra University	Research Collaboration	103
25	Tom Sundius, University of Helenski		
26	S.Muthu, Arignar Anna Govt.Arts College		
27	K.Chandra Mouli, Andhra University		
28	Ahmad Irfan, King Khalid University		
29	Y.Rama Krishna, Andhra University		
30	C.Santhamma, Andhra University		
31	R.Niranjana Devi, Fatima College		
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33	Sravana Kumari Bali, GITAM University		
34	Venkateswar Rao Bathina, V R Siddhartha College		
35	Uma Maheswari Ramisetty,Vignan's IIT		
36	Srikanth Gollapudi, Kyushu Institute of Technoilogy		
37	Hady Habib Fayek, Heliopolis University		
38	Eugen Rusu, University of Galati		
39	Koteswararao, S., K. L.E. F (Deemed to be University)	Research Collaboration	105
40	Prabha, I.S., Jawaharlal Nehru Technological University		
41	Ravindra Dhuli, VIT-AP University	Research Collaboration	106
42	Ganesh R Naik, Flinders University		
43	Kandala N V P S Rajesh, GVP College of Engineering		
44	Bavirisetti, D.P, VIT,Bhopal		
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48	Mandala, G.N, Symbiosis International Deemed to be University		
49	Satyanarayana G V, Vignan University	Research Collaboration	108
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51	Manoj Kumar Karnena, GITAM University		
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53	T.Ravi Babu, GITAM University		
54	Sravani M, Satya Institute of Technology And Management	Research Collaboration	110
55	Murthy M K, AMIT, Affiliated to Utkal University		
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57	Suryanarayana B, Andhra University		
58	Raghavendra Vemuri, Aditya College of Engg & Tech		
59	Parajuli D, Andhra University		
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61	Chandra Mouli K, Andhra University		
62	Maity, K., National Institute of Technology Rourkela, Rourkela, India	Research Collaboration	112
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66	P.Srinivasa Rao, MVGR College of Engineering	Research Collaboration	115
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68	Rao, T.V.M,Vignan's Institute of Information Technology		
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70	Shyamala, P., Andhra University		
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77	Devi S A, GITAM University	Research Collaboration	119
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81	S.Ramesh, GITAM University	Research Collaboration	121
82	P.S.V.Subba Rao , Andhta University		
83	B.Parvateeshwar Rao, Andhra University		
84	B., Dhana Lakshmi, Vignan's Institute of Information Technology (A)		
85	M. Ratna Raju, M. R. College (A)		
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90	Parvateeshwar Rao,Andhra University	Research Collaboration	124
91	P S V Subba Rao, Andhra University		
92	B.Srinivasa Rao, Welfare Institute of Science Technology & Management		
93	Dhanalakshmi, B.,Vignan's Institute of Information Technology (VIIT-A)		
94	Vivekananda, K.V, Department of Chemistry, Vignan's Institute of Information Technology (VIIT-A)		
95	G.V, N.K.,JNTUA College of Engineering	Research Collaboration	125
96	Bali, S.K., GITAM University		
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102	Dnyandeo Pawar, Shenzhen University		
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106	You-ming Lu,, Shenzhen University		
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108	Inty, S.P. ,JNTU Kakinada		
109	P.S.V. Subba Rao, Andhra University	Research Collaboration	129
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111	B.Srinivasa Rao, Wellfare Institute of Science, Technology and Management		
112	S.Ramesh, GITAM University		
113	Balakrishna, B., JNTU Kakinada	Research Collaboration	130
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132	Gangu Naidu Mandala,GITAM Deemed to be University		
133	Suresh Sirisetty,GITAM University		
134	Sumanth Kumar.C.,GITAM Deemed to be University	Research Collaboration	139
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137	Kadiyala Chandra, JNTUA		
138	S.Ramesh, GITAM Deemed to be University		
139	Ravinder Dachepalli, Osmania University		
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144	Shaik Ibrahim, GITAM University	Research Collaboration	143
145	Kumar, P.V., GITAM Deemed to be University		
146	Lydia, E.L., Vignan's Institute of InformationTechnology(Autonomous),	Research Collaboration	144

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147	Shankar, K., School of Computing, Kalasalingam Academy of Linkage for research paper publication and Education		
148	Allu, V.P.,Jawaharlal Nehru Technological University	Research Collaboration	145
149	Shinagam, R., Gayatri Vidhya Parishad College of Engineering		
150	Pradeep, A.V.,JNTU Kakinada	Research Collaboration	146
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152	Balakrishna, B., JNTU Kakinada	Research Collaboration	147
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154	Gurugubelli, S.N., Jawaharlal Nehru Technological University		
155	Y.Sai Ratnakar, Welfare Institute of science,technology and Management	Research Collaboration	149
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164	Raju.K.V.S.V.N.,GVP College for Degree and PG Courses School of Engineering	Research Collaboration	154
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170	Shankar Rao, Y.B., Anil Neerukonda Institute of Technology & Sciences		

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173	Rao. P.S.V.S, University of Cambridge		
174	Dhanalakshmi, Vignan's Institute of Information Technology		
175	Kollu, P., University of Hyderabad		
176	Nagesh Kumar, G.V. Vignan's Institute of Information Technology	Research Collaboration	159
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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (the "**MOU**") is entered into on 04/05/2022 And shall be Effective from 03/05/2023 (the "**Effective Date**"),

BY AND BETWEEN:

Sorting Hat Technologies Private Limited, a private company incorporated under the provisions of the Companies Act, 2013 bearing CIN U72200KA2015PTC082063 and having its registered office at Maruti Infotech Centre, 3rd Floor, A-Block, Domlur, Koramangala Inner Ring Road, Bangalore- 560 071, Karnataka, India (hereinafter referred to as "**Company**", which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its legal representatives and permitted assigns) of the **FIRST PART;**

AND

Vignan's Institute of Engineering for Women with its campus at Kapujaggarajupeta, Visakhapatnam Dist Andhra Pradesh here in after referred to as "College", which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its legal representatives and permitted assigns) of the **SECOND PART;**

The Company and the College shall thereafter, as the context may require, individually be referred to as a "**Party**" and collectively be referred to as the "**Parties**".

THE PARTIES TO THIS MOU HEREBY AGREE AS FOLLOWS:

1. **SCOPE**
   - 1.1. The College is an educational institution recognized under law, providing education to students for various disciplines.
   - 1.2. The Company owns and operates a technology platform which provides among other services, test Preparation and online learning called www.unacademy.com or the Unacademy App ("**Platform**").
   - 1.3. The College in desirous of engaging with the Company for various collaborative activities ("**Activities** and/or **Activity**") as given in this MOU; The Company may
     - 1.3.1. conduct Webinars to create awareness about career opportunities in the subject or field that the students at the College are interested in;
     - 1.3.2. Conduct technical workshops, advance technologies workshops and campus placement workshops.
   - 1.4. The details of the Activities shall be mutually decided between the Parties and confirmed via email ("**Email**") or by a separate agreement or contract as required.
   - 1.5. The College shall provide the contact details of the students, with the required consents, who need to be enrolled in the webinars and workshops to the Company, or who are meritorious.

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1.6. The Parties agree, in the event the Parties decide to confirm details of the Activities via Email, such Email shall be a valid and binding on both Parties, along with corresponding terms and condition for each Activity.

1.7. The Parties agree that this MOU is being entered purely for collaborative purposes without any expectation of any monetary compensation.

1.8. In the event the College recognizes any students who are meritorious, upon mutual agreement between the Parties, the Company shall offer special discounts for those individuals. It is hereby clarified that the discounts can be availed directly by those students who purchase a subscription on the Platform and the Company shall not collect or process any payments to the College at any point of time. The discounted subscriptions will be provided by the Company subject to the College sharing the requested details of the individuals with the Company. The Company may even share a unique code that the student may have to input at the time of availing the subscription in order to avail the special discounts. The details and terms and conditions for any Activity involving such discounted subscription shall be shared via Email or a separate agreement or contract.

2. TERM

This MOU shall commence on the Effective Date and shall continue until 03/05/2023 ("Term").

3. TERMINATION

3.1 Either Party shall have the right to terminate this MOU by providing 30 (Thirty) day's written notice in the event that any Party materially breaches its obligations under this MOU:

a. in a manner that is irremediable; or
b. fails to remedy a remediable breach within 30 days after being put on notice of such breach by the non-breaching Party; or
c. undergoes a "bankruptcy event", as such term is conventionally understood or for convenience.

3.2 Upon termination of this MOU and thereafter, neither Party shall provide to any beneficiary or third party or the public at large, the impression that the association between the Parties is continuing or allow such impression to be created.

3.3 Notwithstanding the termination of this MOU, the terms contained in Clause 4 below, in relation to confidentiality and non-disclosure, shall survive for a period of 2 (Two) years from the date of termination of this MOU.

4. CONFIDENTIALITY AND NON-DISCLOSURE

4.1 Each Party hereby acknowledges that, based on the Party's past or current relationship with the other Party such Party has had access to, or may have access to and become acquainted with the Confidential Information (*as defined below*) of the other Party. Each Party hereby covenants and agrees that it shall not, in any fashion, form or manner, unless previously and specifically consented to in writing by the other Party, either directly or indirectly use, divulge, transmit or otherwise disclose or cause to be used, divulged, transmitted or otherwise disclosed to any person, firm, partnership, corporation or other entity now existing or hereafter created, in any manner whatsoever (other than to its directors, officers, employees and advisors and other than as required by law), any of the disclosing Party's Confidential Information of any kind, nature or description. Each Party hereby further acknowledges and agrees that the sale or unauthorized use, transmission or other disclosure of any of the disclosing Party's Confidential Information which is in their possession constitutes unfair competition and the receiving Party covenants and agrees that it shall not engage in any unfair competition with the disclosing Party. The foregoing provisions shall not be construed to prevent the receiving Party from making use of or

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Disclosing information that is in the public domain through no fault of receiving Party; provided, however, specific information shall not be deemed to be in the public domain merely because it is encompassed by some general information that is published or in the public domain. The foregoing provisions shall also not be construed as preventing Company from reasonable and bona fide efforts to promote the Company using Personality's Services.

4.2 **"Confidential Information"** shall mean (a) this MOU and any information which is disclosed by any Party to the other Party pursuant to, or in connection with this MOU (whether orally or in writing and whether or not such information is expressly stated to be confidential); (b) any dispute or claim arising out of or in connection with this MOU or the resolution of such claim or dispute, (c) any information or materials prepared by or for the Parties or its representatives that contain or otherwise reflect, or are generated from the Confidential Information; (d) in case of the Company, any trade secrets, information, ideas, concepts, processes, techniques, or any other Intellectual Property, any information or data relating to the affairs of any Party including any project, work in progress, reports, statistics, summaries, records, future business, revenue projections, operational or financial plans, financing or personnel matters, information relating to present or future works, views, subscribers, clients, customers, employees, key persons engaged by the Company. Confidential Information shall not include any information in the public domain, provided, however, specific information shall not be deemed to be in the public domain merely because it is encompassed by some general information that is published or in the public domain.

5. REPRESENTATIONS AND WARRANTIES

5.1 Each Party hereby represents and warrants to the other Party that it has the legal capability to grant the rights under this MOU and to satisfy its obligations and responsibilities hereunder.

5.2 Other than as specifically provided herein, each Party warrants that it shall not represent to any third Party that it is acting on behalf of the other Party and in no case shall each Party create or allow the creation of the impression that the other Party has any direct or indirect relationship with or liability to the beneficiaries or such other third party.

5.3 Each Party ('Indemnifying Party') agrees that it shall, at its own expense, indemnify, defend and hold harmless the other Party and the other Party's officers, directors, employees, representatives, agents, respective directors, trustees and assigns from and against any and all direct liability (including but not limited to liabilities, judgments, damages, losses, claims, costs and expenses, including attorneys' fees and expenses) and any other direct loss that may occur, or arise from or relate to malfeasance, misfeasance or deliberate negligence or breach of any representations or warranties by the Indemnifying Party, in the performance of the Indemnifying Party's material obligations under this MOU.

5.4 To the extent permitted by applicable law, in no event shall either Party be liable for any special, indirect, consequential, exemplary or incidental damages, however caused to the other Party, arising out of or relating to this MoU.

6. INTELLECTUAL PROPERTY RIGHTS

6.1 Each Party acknowledges the intellectual property rights of any kind, including but not limited to copyright, patent rights, design rights, service marks, trademarks, logos, titles, slogans, property rights and any other rights, held by the other Party. The Parties undertake that neither of them shall claim any right, title and interest in the intellectual property rights of the other Party.

6.2 During the Term, each Party grants the other Party a limited, non-exclusive, royalty-free right under this MOU to use its name and logo for the purposes of public relations and promoting the association between the Parties under this MOU, including without limitation, promoting over social media platforms, promotional material as approved by the other Party in writing and all related collateral.

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Each Party shall obtain the other Party's approval before using the other Party's name and logo in public relations, promotional and related communications as provided herein, it being agreed by the other Party that such approval shall not be unreasonably withheld or delayed. Further, it is clarified and agreed among the Parties that any such approval granted shall sustain during the Term for repeated use of such approving Party's name and logo in similar public relations, promotional and related communications for purposes of the Programme defined herein.

6.3 The Parties agree that subject to the licenses granted hereinabove, any intellectual property rights created by either Party in the course of giving effect to this MOU shall be owned by the Party that creates the same.

7. GOVERNING LAW, DISPUTE RESOLUTION AND JURISDICTION

This MOU shall be governed by and construed in accordance with the laws of the Republic of India. Any dispute under this MOU shall be resolved by arbitration by a sole arbitrator appointed in accordance with the Arbitration and Conciliation Act, 1996, in Bengaluru, India. The courts of Bengaluru, India shall have jurisdiction over this MOU.

8. MISCELLANEOUS

This MOU constitutes the entire agreement between the Parties with respect to the Agreement and supersedes all prior written agreements and understandings, both written and oral, between the Parties with respect to the Agreement. This MOU shall be binding in all respects and shall govern the relationship between the Parties. This MOU shall be binding upon executors, successors in interest and permitted assigns of the respective Parties. Any provision of the MOU may be amended or waived if, and only if such amendment or waiver is in writing and signed, in the case of an amendment by each Party, or in the case of a waiver, by the Party against whom the waiver is to be effective. Either Party may not, assign, in whole or in part, the benefits or obligations of the MOU to any other person without the prior written consent of the other Party. The MOU may be executed in counterparts, each of which when executed shall constitute an original, but both of which when taken together shall constitute one and the same agreement. Nothing contained in this MOU shall be construed as creating any agency, legal representative, partnership, association of persons or other form of joint enterprise between the Parties. Neither Party shall have authority to contract for or bind the other in any manner whatsoever.

IN WITNESS WHEREOF, the Parties hereto have executed and delivered this MOU as of the date and year first written above.

Signature		04/05/22
Name	Tony Mathew	Dr. J. Sudhakar
Title	Authorized Signatory	Principal
	For, Company	For, College

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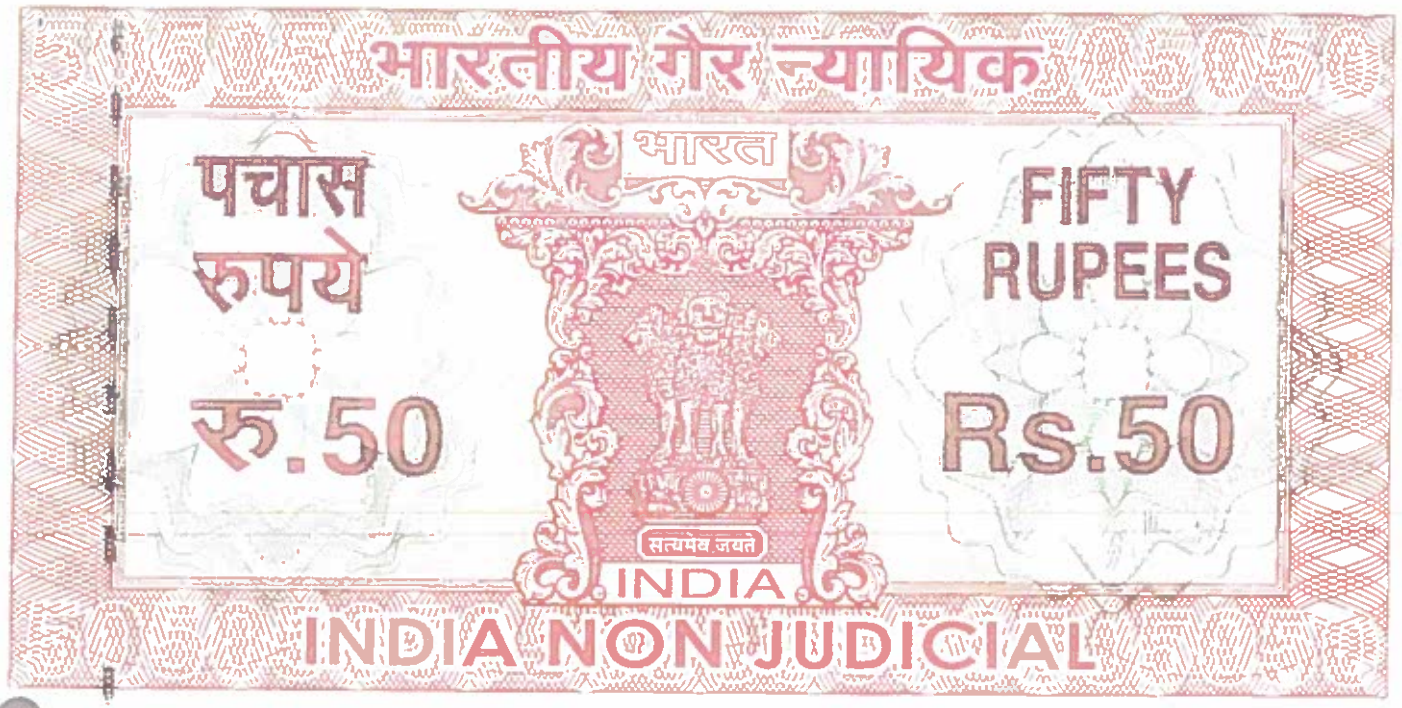

ఆంధ్రప్రదేశ్ आन्ध्र प्रदेश ANDHRA PRADESH AN 308342

760 Date 22/02/2022 ₹-50/-

Sold o Sudhakar Jyothula s/o Arjuna Jyothula

For Whom Self

Memorandum of Understanding

This Memorandum of Understanding is entered into and executed on this 24th February 2022 at Visakhapatnam BY AND BETWEEN **Vignan's Institute of Engineering for Women** (hereinafter called "**VIEW**"), represented by its **Principal**, having its office at Visakhapatnam, which expression shall, where the context so admits, be deemed to include its successors, executors and administrators of the ONE PART

AND

Bharat Sanchar Nigam Ltd., (hereinafter referred to as the "BSNL") a company registered under the Companies Act, 1956, through its Principal General Manager, Visakhapatnam Telecom District having office at 1st Floor, BSNL Bhavan, Dabagardens, Visakhapatnam-530020 (which expression, unless it be repugnant to the context or meaning thereof, shall be deemed to mean and include their executors, administrators and assigns), party of the SECOND PART.

WHEREAS, the **VIEW** has initiated to provide competency based employability enhancement skills for Technical courses as approved / Recognized by appropriate Government Authority & WHEREAS BSNL Training Center in Visakhapatnam Telecom District is required to perform the role and function of providing hands on skill training to **4 years / 2 years B.Tech / M.Tech students in ECE, IT and Computer Sciences and all its related areas.** WHEREAS the First Party has to nominate the number of students for the various programs offered by BSNL-TP and WHEREAS the Second Party has expressed its keen interest to be a key partner in the execution of this program in terms of the objectives of the scheme and WHEREAS

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सहायक महा प्रबंधक (ई.बी.-बिक्री)
Asst. General Manager (EB-Sales)
म.प्र.दू.सि.का. / O/o. G.M.T.D.
भा.सं.नि.लि./ B.S.N.L.
विशाखपट्टणम /VISAKHAPATNAM-20
फोन/Ph. No. 0891-2570977

highlighted and specified in the said program and particularly in view of the desire and interest of BSNL to join and partner with **VIEW** in providing competency based skills through its training center in Visakhapatnam.

WHEREAS both parties have held discussions and agreed for collaboration for conducting training Under this MOU and in GENERAL for Technical & Management Courses whereby BSNL will impart the requisite training and award credits for the training conducted on its own, to the registered students. THEREFORE, both the parties hereby agree that the Training Center at Visakhapatnam of BSNL, as approved and recognized by BSNL and **VIEW** from time to time shall be known as an act / perform the role of "Training Providers" in GENERAL for Technical Courses initiated by **VIEW** on the following terms and conditions :

1. That BSNL agrees that Training center in Visakhapatnam set up by BSNL and herein after to be referred as "BSNL-TP" shall act and perform the role of Training Provider to provide hands on skill training in specific sector such as Telecommunications and Management courses and all its related areas.

2. That BSNL agrees and undertake that its "BSNL-TP" conduct skill training in specific sector such as Telecommunications and Management courses and all its related areas and shall perform following functions:

a. Announce the schedule of skill training modules for calendar year.

b. Register students for the modules and upload the same on BSNL website.

c. Conduct the skill modular training.

d. Conduct examination / evaluate the student, award the grade indicating completion of Training and uploading the same on the BSNL website.

e. The BSNL-TP recognized and approved by BSNL may register students as provided by the VIEW.

3. The BSNL-TP as specified in the Memorandum of Understanding, may take flexible training timing and schedule in consultation with VIEW.

4. The BSNL-TP shall announce and inform through its website, the schedule of the Skill Modules it plans to offer in the academic year concerned for the information of the prospective students and it shall accept the students as provided by VIEW

5. The BSNL-TP shall be entitled to the fee as mentioned below.

6. Priority should be given to BSNL to send students for Internship, Project, Certified courses in Engineering and Management streams during MOU period.

7. The BSNL-TP will conduct appropriate training sessions as per the following pedagogy.

a) These various programs on different topics under this project will focus on practical hands-on training in field / practical supplemented with structured academic content that shall be provided online and may be supplemented with appropriate theory sessions to the students of VIEW in Technical & Management streams.

b) Practical sessions shall be held in flex-mode that shall expose the students to various Telecom equipment in terms of their operations.

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Asst. General Manager (EB ... es)
म.प्र.दू.सं.का. / O/o. G.M T.D.
का.दू.सं.नि.लि. / B.S.N.L.
विशाखपट्टणम /VISAKHAPATNAM-20
फोन/Ph. No. 0891 ...

c) Academic content shall focus on the various operational procedures / facets of the Telecom equipment / technologies present in the BSNL network related to the practical sessions in an attempt to provide the student with high end equipment handling practical skills *as opposed to rote learning*.

d) Academic Structure of Programs:

1. **BSNL Certified Courses for Engineering Stream:** The complete spectrum of Telecom practical skill learning shall be divided into 7 modules. The duration of the skill-part of the program in BSNL set-ups / training centers shall be incorporated into three academic semesters of conventional engineering education B-Tech / M.Tech (ECE,IT & Computer Science) starting with 5th Semester: 35 practical sessions of 2 hours each (70 hrs) : 10 field visit sessions of 2 hours each (20 hrs).

(This stream approved by AICET in association with BSNL will be offered to the interested students only)

2. **INTERNSHIP / Project (2/4/ 6 weeks)** : Students involve in learning BSNL Infrastructure, hands on experience in all Telecom streams namely Switching, Transmission (Optical Fiber Communication),Wireless Communications, Mobile Communications , Broadband Services, Data Networking, Web design Etc.

3. **INTERNSHIP/Project (2 weeks)** : Students involve in knowing BSNL infra and all the related technologies.

4. **Online Certificate Program (8 weeks)** : 8 Practical sessions of four hours each (32Hrs).

Broadband Technology, Digital Switching Systems, Digital Transmission Systems, IP Networking and Cyber Security, Mobile Communication (2G/3G/4G/5G), Optical Fiber Technology & Telecom Support Infrastructure, Basic Web Desisgning and advanced web Designing with Angular and React, APP's development, Networking and its security.

5. Seminar: Four Hours session

6. Industrial visit: Field visit for 3 Hours Internship / Project

However, the new courses will be designed in accordance with the demand from VIEW administration and fee also decided in negotiation with both parties accordingly

e) In brief, the training sessions shall introduce the trainee to various planning and operational aspects, e.g. subscriber creation, route creations, network optimization, network performance monitoring, fault rectification, traffic reporting, network planning and dimensioning, etc. And in management perspective include personality management, marketing planning strategy etc.

f) The online content / theory sessions provided shall support material (soft copy) for the practical sessions in terms of descriptions and explanations obtained from our equipment manuals. Normally, it shall not address theoretical concepts that students learn as part of communication engineering.

g) In addition to that an over view on improvement of communication skills, soft skills and preparation of curriculum vita etc., will be imparted as additional advantage.

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Asst. General Manager (EB-Sales)
म.प्र.दू.सं.का. / O/o. G.M.T.D.
भा.सं.नि.लि./ B.S.N.L.
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फोन/Ph. No. 0891-2570077

h) **FORCE MAJEURE:**

If at any time, during the continuation of this Memorandum of Understanding, the performance in whole or in part, by other party, of any obligation under this is prevented or delayed, by reasons of war, or hostility, acts of public enemy, civic commotion, sabotage, act of state or direction from statutory authority, explosion, epidemic, quarantine restriction, strikes and lock-outs, fire, floods, natural calamities or any act of God (hereinafter referred to as event), provided notice of happenings of any such events is given by the effected party to the other within 7 calendar days from the date of occurrence thereof, neither party shall, by reasons of such events be entitled to terminate the Memorandum of Understanding, nor shall other party have any such claims for damages against the other in respect of such non - performance or delay in performance. Provided service under the MOU shall be resumed as soon as practicable, after such event comes to an end or ceases to exist. The decision of BSNL as to whether service may be so resume (at the time frame within which the service may be resume) or not, shall be final and conclusive. However, the Force Majeure events noted above will not in anywhere cause extension in the period of the MOU.

i) **Dispute resolution and arbitration:**

a. In case of dispute there shall be an arbitration committee comprising of representative/s nominated by Board of Management, VIEW, Visakhapatnam and representative/s nominated by Head of Visakhapatnam BSNL telecom district, Visakhapatnam. The decision of the arbitration committee shall be binding on both parties.

b. The Memorandum of Understanding shall be subject to exclusive jurisdiction of courts at Visakhapatnam only.

ii) **Arbitration Clause:**

Except as otherwise provided elsewhere in the contract, in the event of any disputes, controversy, or differences arising out of or relating to this MOU, or the breach, termination or invalidity thereof between the parties, such party or parties shall make a request to the other party or parties to amicably settle such differences or disputes and parties shall thereupon make every effort to settle the same amicably within a period of 60 (sixty) days from the date of making of such request.

Where parties are unable to settle the disputes through conciliation, the same shall be referred to the authority in BSNL (GMTD Visakhapatnam) for referral of such disputes to a sole arbitrator (chosen from the name(s) provided by BSNL), to be mutually decided by the parties, as per the provisions of the Arbitration and Conciliation Act, 1996, any amendment thereof, and any notification issued or rules made thereunder from time to time.

The venue of the arbitration proceeding shall be Visakhapatnam.

1. **Duration of the Program**: 8 weeks after graduation and 12 weeks for students who are currently enrolled: The training may be spaced between 5th, 6th, and 7th semesters, covering all seven certificate programs, for the currently enrolled students. (35 practical sessions of 2 hours each + 10 field visits of 2 hours each making a total of 90 hours; the distribution of which may be decided in consultation with the technical campus.

Fee for the courses:

a. Fee for BSNL Certified course: Fee shall be limited to and not lesser than Rs.**10, 000 + GST** per semester per student totaling to Rs. **30,000 + GST** per student across the three semesters.

b. Fee for Internship (2 weeks duration) fee shall be limited to and not lesser than Rs.2, 500 +G ST.

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विशाखपट्टणम /VISAKHAPATNAM-20
फोन/Ph. No. 0891-

c. Fee for Internship (6 weeks) course: Fee shall be limited to and not lesser than Rs.6, 000 + GST.

d. Fee for Online certificate program course: Fee shall be limited to and not lesser than Rs.5, 000 + GST.

e. Fee for Seminar: Nomination of faculty from BSNL at free of cost (for MOU universities/ colleges only)

f. Fee for Industrial visit: Offered at less cost.

(for MOU universities/ colleges - Concession can be given depend on number of students enrolled).

2. PAYMENT TERMS:

a) For BSNL Certified courses, Internship and Project trainings, fee will be directly paid by the student to BSNL.
b) For On-Campus training fee will be paid directly by the VIEW to BSNL Visakhapatnam in the form of NEFT to AO (Cash) O/o BSNL Visakhapatnam before ten days, the commencement of the course program on revenue share basis (70:30).
c) Amount paid / deposited cannot be refunded under any circumstances.

Revenue sharing (On-Campus trainings):

For On-Campus training (Certified courses, Internship training and Project work) revenue will be shared on 70:30 (BSNL: VIEW). VIEW will arrange accommodation and other logistics to conduct training classes in the VIEW premises and practical will be conducted in the BSNL premises.

Note: Course fee will be reviewed / enhanced as per the BSNL corporate office guidelines.

3. Relevant Documents

A Comprehensive report (Attendance / Evaluation etc.) of the training shall be furnished by BSNL TP, Visakhapatnam to VIEW.

4. Process Methodology

a. VIEW may inspect the training programs randomly by authorized persons and binding on BSNL TP, Visakhapatnam to extend all support to VIEW
b. BSNL TP, Visakhapatnam will rectify any shortcomings observed during the visit on an immediate basis.

A summary of the all programs that shall be delivered under this Memorandum of Understanding are as per schedule II.

5. The BSNL - TP will evaluate the students for the Training Skill and award grades and such grade sheet shall be submitted to the VIEW.

6. The BSNL - TP shall maintain a record of the registered students and certificates issued and upload the same on the BSNL web portal.

7. No Confidentiality: There shall not be any confidentiality of the information disclosed to by both parties to each other, either in operationalizing this Memorandum of Understanding or for the purposes of implementing

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भा.सं.नि.लि. / B.S.N.L.
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फोन/Ph. No.

this Memorandum of Understanding. The information sought under Right to Information Act or otherwise by any student, shall be promptly made available.

8. The BSNL agrees and undertakes that the BSNL - TP as recognized and approved by VIEW, shall act as Training Provider in terms of the Memorandum of Understanding signed by them with the VIEW and the Memorandum of Understanding to be signed between the VIEW and the Training Provider shall provide the details regarding the schedule of operation, in order to protect the interest of students and all concerned stakeholders.

9. The BSNL shall participate, operate and execute the scheme strictly in accordance with the scheme in GENERAL for Technical & Management Courses initiated by VIEW and shall not indulge in any violation of the scheme.

10. Both the parties shall indemnify and keep the other party indemnified and harmless against any and all claims, actions, proceedings by third party (including all costs, expenses, damages / losses) arising out of or in connection with this MOU due to breach of any provisions of this MOU by such party or as a result of any act of negligence / omission or commission on part of such party and / or its employees, agents etc.

11. The present Memorandum of Understanding can be terminated by the VIEW / BSNL by giving a notice of one month to BSNL / VIEW without assigning any reason in this regard and the VIEW / BSNL shall have no claim against each and its officials on account of termination of such Memorandum of Understanding. However, the responsibilities and duties of both parties in respect of the common students already registered shall not end with the termination of the Memorandum of Understanding, and these will remain valid in totality until completion of evaluation of the already registered students and reporting of their results by both parties.

12. Effective Date:

This Memorandum of Understanding is effective from the date signed by both the parties will be valid for a period of FIVE years until determined, suspended or terminated earlier.

IN WITNESS WHEREOF, the parties hereto, each acting under due and proper authority, have executed this mutually binding Memorandum of Understanding as of the date first written above.

For VIEW

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Signed:

Name: Dr.Sudakar Jyothula

Title: Principal

Date: 24/02/2022

1) Witnessed by

Signature:

Name: Dr.Ch.Ramesh Babu

Date: 24/02/2022

For BSNL

सहायक महा प्रबंधक (ई.बी.-विक्री)
Asst. General Manager (EB-Sale
म.प्र.दू.सं.का. / O/o. G.M.T.D.
भा.सं.नि.लि./ B.S.N.L.
विशाखपट्टणम /VISAKHAPATNAM-2
दू. सं/Ph. No. 0891-2570977

Signed:

Name: Malla Satya Prasad

Title: Assistant General Manager, BSNL

Date: 24/02/2022

1) Witnessed by

Signature:

Name: Mr.N.Kranthi Kumar

Date: 24/02/2022

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Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

2) Witnessed by

Signature: T. Sandhya Kumari

Name: Mrs.T.Sandhya Kumari

Date: 24/2/2022

2) Witnessed by

Signature:

Name:

Date: 24/02/2022

PRINCIPAL
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Visakhapatnam-49

ACTIMUS BIO

Memorandum of Understanding (MOU)
Between
ACTIMUS BIOSCIENCES Pvt Limited
and
VIGNAN INSTITUTE OF ENGINEERING FOR WOMEN

This Agreement made by this 16TH Feb 2022, between Actimus Biosciences Private Limited located at Siripuram, Visakhapatnam, and Vignan Institute of Engineering for women, Kapujaggaraju Peta Visakhapatnam.

Objective of the MOU

The objective of this Memorandum of Understanding (MOU) is:

- To promote the interaction between **ACTIMUS BIO** and **VIEW** is mutually beneficial area of basic research.

Proposed Mode of Collaboration

- Sponsoring student projects.
- Sponsoring R& D projects, this may be carried out wholly or partly at **VIEW** or **ACTIMUS BIO.**

Forms of Research and Development Programs

- In their own existing facilities — The performance of research individually by each party or concurrently with both parties in mixed groups at their own facilities.

Agreements for Research Collaboration

- The nature, scope and schedule of the Research collaboration.
- The form of research collaboration.
- The sponsoring of the research fund

Signed In Duplicate

- This MOU is executed in duplicate with each copy being an official version of the Agreement
- By signing below, the parties acting by their duly authorized officers have caused this memorandum of understanding to be executed effective as of the day and year first above written.

P. Sai Sagar

Visakhapatnam * Actimus Biosciences PVT Ltd. *

ACTIMUS BIOSCIENCES Pvt Limited

Varun Towers, 4th Floor,
Kasturiba Marg, Siripuram,
Visakhapatnam, Andhra Pradesh 530003

Dr. J . Sudhakar
Principal
VIGNAN INSTITUTE OF ENGINEERING FOR WOMEN
Beside VSEZ, Kapujaggaraju Peta
Visakhapatnam, Andhra Pradesh 530046

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN * VISAKHAPATNAM-49 *

HUAWEI

Memorandum of understanding ("MOU")

Between

Vignan's Institute of Engineering for Women.

And

Huawei Services (Hong Kong) Co., Limited

Dec 1st 2021

Agreement NO.: F0U35621000324

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Kapujaggarajupeta, VSEZ (P.O)
Visakhapatnam-49

Party A: Vignan's Institute of Engineering for Women (VIEW)
Address: Vadlapudi, VSEZ Kapujaggaraju peta, Andhra Pradesh 530046

Party B: Huawei Services (Hong Kong) Co., Limited (hereinafter referred to as "HUAWEI" or "Huawei")
Address: Room 03, 9th Floor, Tower 6, The Gateway, No. 9 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong

Huawei and VIEW are hereinafter individually referred to as the "Party" and collectively, the "Parties".

Part I: Cooperation Provisions

- **Cooperation background**

In order to respond to the Global digitalization needs, comprehensively promote the collaboration of Academic institutes and enterprises in education, give full play to the advantages of both universities and enterprises, train more high-quality and high-skilled applied talents with good professional knowledge and practical skills for the society, and promote the deepening of educational reform in universities and improve the quality of talent cultivation, based on the principles of resource sharing, complementarity, mutual benefit and common development, both universities and enterprises actively explore the establishment of pluralistic, multi-level and multi-form cooperative relations between universities and enterprises.

- **Company Overview:**

HUAWEI Mobile Services is part of Huawei Consumer Business Group which aims to provide a complete mobile experience to HUAWEI mobile users. The users can enjoy official services such as Mobile Cloud, AppGallery, Videos, and Themes etc. which comes along with EMUI

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operating system. HMS covers 570 million users in over 170 countries, serving a smart living experience to benefit users. In the era of a fully connected world, HUAWEI will provide a better user experience and fulfilling commitment to bring the world closer together.

Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. With integrated solutions across four key domains which are telecom networks, IT, smart devices, and cloud services. Huawei is committed to bringing digital to every person, home and organization for a fully connected, intelligent world.

As one of Huawei's three business groups, Huawei Consumer Business Group is the leader of all-scenario AI life. It covers smartphones, PC and tablets, wearables, mobile broadband devices, family devices and device cloud services. Huawei Consumer Business Group is dedicated to delivering the latest technologies to consumers and sharing the happiness of technological advances with more people around the world.

- **Cooperation Mode and Content**

After friendly negotiation, both parties agree to carry out an online training course/session on Mobile Application Development in the HUAWEI Mobile Services (HMS) ecosystem for the students of the Institute.

- **Objective/Purpose:**

The key objective is to provide a learning and training platform to students of the Institute who are interested, dedicated and passionate to learn and do some innovation in the space of mobile app development using HMS. This training program will provide an opportunity for the students to upgrade their skills and showcase their hidden talent by coming out with innovative and smart mobile apps that can have a significant impact on society, the nation and the entire humanity.

The most active and top performers or innovators will be recognized under HSD Program and will be rewarded in the form of certificate for their hard and smart work to continue represent the HMS community and conduct regular community activities.

- **Plan of Action/Scope of Work:**

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- The **Future of App Industry Webinar** will be conducted by Huawei experts for all students.
- Webinar includes industry insights, developer account registration, HMS capabilities and HMS Foundation course details.
- Webinar will be conducted using **Stream yard** and **Facebook live**.
- The HMS Foundation course training will be conducted by the HMS expert for the interested students and Lecturers.
- The training duration will be of 5 weeks.
- The programming language will be **Java**
- The course will start from December 2021 Third week and expected to get complete before by last week of Jan 2022.
- The **Zhumu** will be used to create virtual classes for students with professors.
- The training session will be both theoretical and practical classes including Hands-on experience.
- Exams for students and feedbacks for trainers will be taken to evaluate their performances.
- During the training, students will be encouraged to build sample applications and release applications in **AppGallery**.
- Huawei team will provide end to end support in resolving all technical **queries, doubts, application development** and **deployment** with respect to HMS.
- After the course completion, Huawei will support all the eligible participants to get the **Certificate**.

- To circulate the Future of App Industry Webinar information to all the students and makes students to join the student developer Facebook group.
- To encourage all students to register Huawei developer account.
- To facilitate the interested students to join the training sessions with appropriate guidance.

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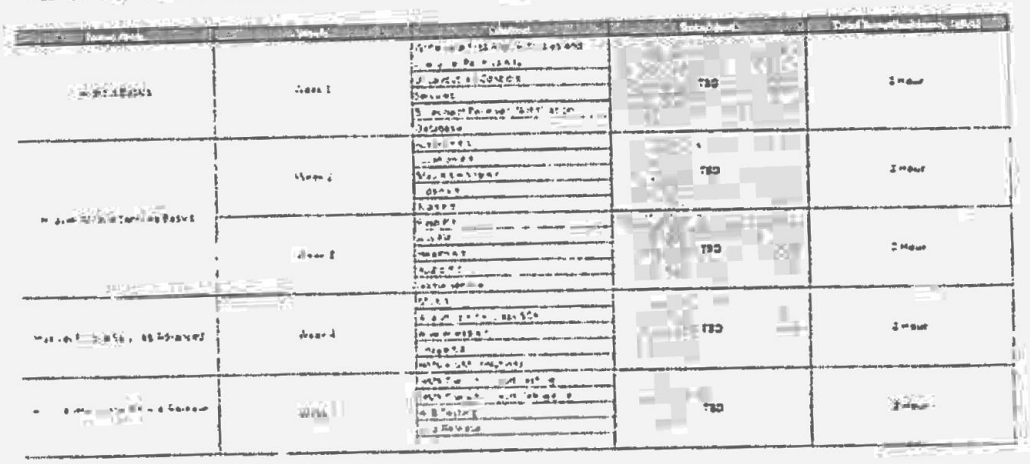
- To appoint Lecturer and support staff as coordinators between Huawei and students.
- The Institute will explore the possibility to provide maximum number of students for every training session.
- Lecturers to recommend suitable students for Student community organizer Role.
- Lecturers and other support staff members will encourage the students complete assigned tasks and bridge the communication gaps.

Course Structure with Timelines



Join the trainer program for the foundation course

- 10 Lecturers can join the Foundation course along with Students
- Lecturer need to learn all the topics and develop applications along with students
- If the Application selected is big and complex, Lecturer can lead batch 4-5 students and develop the application
- Lecturers can apply for the program Huawei Academy Lecturer
- Once Lecturer get selected, Lecturers can contribute articles and videos on Huawei developer forum & training portal
- Lecturers also can produce advanced training videos and developer stories/case studies on Huawei training platform

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- The Institute will liaise with the students in registering them & making them attend the sessions without any difficulties.
- All the students should create their Huawei Id for accessing HMS Kits and other services for building mobile applications and deploying in AppGallery.
- Students who completes the entire course and successfully deploy an application into AppGallery are eligible for a certificate.
- The certificates will clearly highlight the logo of Huawei along with the name of the participant, course title, appropriate seal and signatures in digital format.
- Only soft copies of the Certificate (e-Certificate) to be provided and no hardcopies.
- Top performing students can support in mentoring other students and resolving an initial set of queries.
- The Institute can recommend selective potential students for the role of Huawei student developer organizer, but the final call has to be taken by the HMS team.

Future Plans:

- Based on the successful execution of this training program we can plan for an extension of the training sessions with some advanced tutorials having more and more hands-on sessions.
- Institute can adopt HMS content in Curriculum
- Huawei can provide an opportunity for suitable students to become Huawei Developer Experts and Huawei Community Leaders.

In order to achieve the goal of cultivating practical and complex talents, the curriculum design and adjustment of talent cultivation plan are based on the needs of enterprises and industries. Based on HMS and HarmonyOS technologies, build a flexible curriculum system, integrate the curriculum into the college teaching system, set corresponding credits, and jointly develop teaching plans and talent cultivation solutions that meet enterprise requirements. Explore a teaching model driven by industry requirements and centered on engineering practices. The

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curriculum of teaching planning emphasizes the foundation, strengthens practical technology, case teaching and engineering practice.

Feedback Collection Mechanism:

- An online feedback form will be shared to participants with a list of questionnaires finalized between the HMS team and Institute officials.
- The HMS team will collect the feedback and will share it with Institute officials.
- Based on the feedback from students, the HMS team will fine tune the ongoing sessions and will make necessary changes.

Terms and Conditions:

- Huawei will not be responsible for slow internet connectivity or network issues faced by the students during the entire training program.
- Huawei reserves the right with prior notification to make changes in the course structure, course duration, training topics and contents as mentioned above.
- Institute officials needs to provide prior notification to Huawei if postponing any particular training session or changing prefixed time slots.
- Trainers appointed by Huawei can only take the sessions and training materials approved by the HMS team will be used only during training sessions.
- The training timings can be decided based on the mutual discussions between the HMS team and Institute officials.
- All the training materials and training sessions will be provided in English language only.

Part II: General Provisions

1. Legal Effect

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The Parties understand and agree that, except for all clauses of Part II General Provisions specified herein, this MOU only reflects the intent of the Parties and shall not be binding upon the Parties, not intended to create any rights or obligations between the Parties.

2. Confidentiality

2.1 Unless otherwise agreed in writing, neither Party shall disclose to any third parties or make public announcements of the mere fact that the Parties (i) are discussing or intend to initiate discussions on the subject matter hereof or the possibilities to enter into any partnership; or (ii) are contemplating to enter into or have entered into or have terminated any partnership.

2.2 All technical and commercial information provided to the receiving Party ("Recipient") by the disclosing Party ("Discloser") during the negotiation, execution and fulfillment of this MOU, including but not limited to the content of this MOU and the existence of this MOU, shall be deemed to be the Confidential Information.

2.3 The Recipient shall keep all the Confidential Information provided by the Discloser secret and confidential and refrain from disclosing such Confidential Information to any third parties in any manner without prior written consent of the Discloser. The Recipient shall use the Confidential Information only for the purpose of performance of this MOU and shall use reasonable care to protect such Confidential Information.

3. No Rights Granted

Nothing in this MOU shall be construed as one Party granting any expressed or implied rights or license under any patent, copyright or other its intellectual property rights to the other Party

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4. Term and Termination

4.1 This MOU shall become effective upon the day and date last signed and executed by the duly authorized representatives of the Parties and remain in force for a period of Three years.

4.2 One Party shall have the right to immediately terminate this MOU upon written notice to the other Party in any of the following events:

(a) The other Party is in material breach of this MOU and fails to remedy the breach within thirty (30) days of written notice complaining thereof from the terminating party; or

(b) The other Party becomes insolvent or becomes subject to bankruptcy or reorganization or similar procedures for the relief of debtors, or makes a general assignment for the benefit of debtors, or any application therefore; or

(c) The other Party decides to sell or transfer business concerning this MOU without the prior written consent from the terminating party; or

(d) The other Party decides to dissolve or be liquidated; or

(e) The other Party is subject to any substantial change of ownership, including due to any takeover or merger with another company.

4.3 Upon the termination of this MOU, one Party shall promptly return to the other Party all the Confidential Information and copies received from the other Party.

4.4 All clauses of Part II General Provisions shall survive any termination of this MOU.

5. Governing Law and Dispute Resolution

5.1 This MOU shall be construed in accordance with and governed by the laws of Hong Kong, without giving effect to principles of conflicts of law.

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Visakhapatnam-49

5.2 All disputes arising under the terms of this MOU shall be settled amicably through negotiations between the Parties firstly. In the event such disputes cannot be settled amicably through negotiations within a 30-day period, they shall be submitted to the Hong Kong Courts.

6. No Warranty

All information and materials provided by Huawei to Party A hereunder shall be provided "AS IS" without warranty of any kind, and Party A understands and agrees that Huawei shall not be liable for any loss whatsoever arising from or relating to Party A's use or inability to use such information or materials.

7. Miscellaneous

7.1 Either party shall bear its own cost and expenses which may be incurred in the fulfillment of this MOU.

7.2 All headings used in this MOU are inserted for convenience only and shall not affect the meaning or interpretation of any portion of this MOU.

7.3 This MOU constitutes the entire agreement between the Parties with respect to the subject matter hereof and supersedes all prior agreements and negotiations relating thereto. This MOU may not be amended except with the prior written consent of both Parties.

7.4 Neither Party shall assign any of its rights and obligations under this MOU without the prior written consent of the other Party.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

7.5 This MOU is executed in duplicate, one for Huawei and the other for Party A. Each copy shall have the same legal force.

Party A: Vignan's Institute of Engineering for Women (VIEW) (Stamp)

Authorized representative (s):

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Signature:

Name: Dr. Sadhanam Jyothula

Designation: PRINCIPAL

Date: 25.12.2021

Party B: Huawei Services (Hong Kong) Co., Limited (Stamp)

Signature:

Name: Wang Zhuan

Designation

Date: 22-04-2022

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

MEMORANDUM OF UNDERSTANDING

This MOU is made on this Day 16.09.2021

Between

M/s. Aptitude Experts, Second Floor, Sarayu Residency, opposite Day and Night Hospital, near Rama Talkies, Visakhapatnam, Andhra Pradesh 530016, represented by its Founder and CEO **Mr. Suraj Chawla**. (Hereafter to be referred to as **(First Party)**

And

Vignan Institute of Engineering Women located at VSEZ Kapujaggaraju peta, Duvvada represented by team headed by the principal **Dr. J. Sudhakar** hereafter to be referred as **(SECOND PARTY)**

Basing on the series of discussions, it is decided that APEX would provide

- The necessary Faculty to impart the training of Aptitude in Quantitative, Verbal and Logical reasoning practice to the CSE,ECE,EEE,MECH Third year students of Vignan Institute of Engineering for Women at your college premises, the training fee per student is decided to fix at Rs.2000/-
- As per the discussion held earlier the management agreed to streamline 408 students of third year engineering or even more if required.
- The training program would comprise of 90 hours of classroom training, schedule to be decided by the college management
- The course would begin on third week of October 2021 and ends by fourth week of January 2022.
- The performance of individual student in the online tests will be taken and be submitted to the College authorities by the end of the course.
- The training program includes a hard copy of Aptitude Material and access to the website application for the participants' extended learning.

Vignan Institute of Engineering Women would provide:

- The necessary infrastructure that includes the Class Room, LCD Project, and Lab Facility.
- Would look into the aspect of deputing students of related discipline to the Class for their optimum utilization of the service.
- Would appoint an authorized person who can closely monitor the sessions and smooth functioning of the Computer Classes being taken up at college premises.
- The payment of the program will be proceeded to the first party post completion of the program in the form of either cheque, or electronic transfer to either the company i.e. Aptitude Experts.

We would appreciate the long term association with your college and provide the best services further.

Thank you,

For Aptitude Experts.

For APTITUDE EXPERTS

Suraj Chawla

Authorised Signatory

FOUNDER AND CEO

(SURAJ CHAWLA)

Vignan Institute of Engineering for Women

PRINCIPAL

(Dr. J. SUDHAKAR)

PRINCIPAL
Vignan's Institute of
Engineering for Women
K. J. Peta, VSEZ (P.O.)
Visakhapatnam-49

MEMORANDUM OF UNDERSTANDING

This MOU is made on this Day 16.10.2020

Between

M/s. Aptitude Experts, Second Floor, Sarayu Residency, opposite Day and Night Hospital, near Rama Talkies, Visakhapatnam, Andhra Pradesh 530016, represented by its Founder and CEO **Mr. Suraj Chawla**. (Hereafter to be referred as **(First Party)**

And

Vignan Institute of Engineering Women located at VSEZ Kapujaggaraju peta, Duvvada represented by team headed by the principal **Dr. J. Sudhakar** hereafter to be referred as **(SECOND PARTY)**

Basing on the series of discussions, it is decided that APEX would provide

- The necessary Faculty to impart the training of Aptitude in Quantitative, Verbal and Logical reasoning practice to the CSE,ECE,EEE,MECH Third year students of Vignan Institute of Engineering for Women at your college premises, the training fee per student is decided to fix at Rs.2000/-
- As per the discussion held earlier the management agreed to streamline 396 students of third year engineering or even more if required.
- The training program would comprise of 90 hours of classroom training, schedule to be decided by the college management
- The course would begin on third week of November 2020 and ends by fourth week of March 2021.
- The performance of individual student in the online tests will be taken and be submitted to the College authorities by the end of the course.
- The training program includes a hard copy of Aptitude Material and access to the website application for the participants' extended learning.

Vignan Institute of Engineering Women would provide:

- The necessary infrastructure that includes the Class Room, LCD Project, and Lab Facility.
- Would look into the aspect of deputing students of related discipline to the Class for their optimum utilization of the service.
- Would appoint an authorized person who can closely monitor the sessions and smooth functioning of the Computer Classes being taken up at college premises.
- The payment of the program will be proceeded to the first party post completion of the program in the form of either cheque, or electronic transfer to either the company i.e. Aptitude Experts.

We would appreciate the long term association with your college and provide the best services further.

Thank you,

For Aptitude Experts.

For APTITUDE EXPERTS

Suraj Chawla

Authorised Signatory

FOUNDER AND CEO

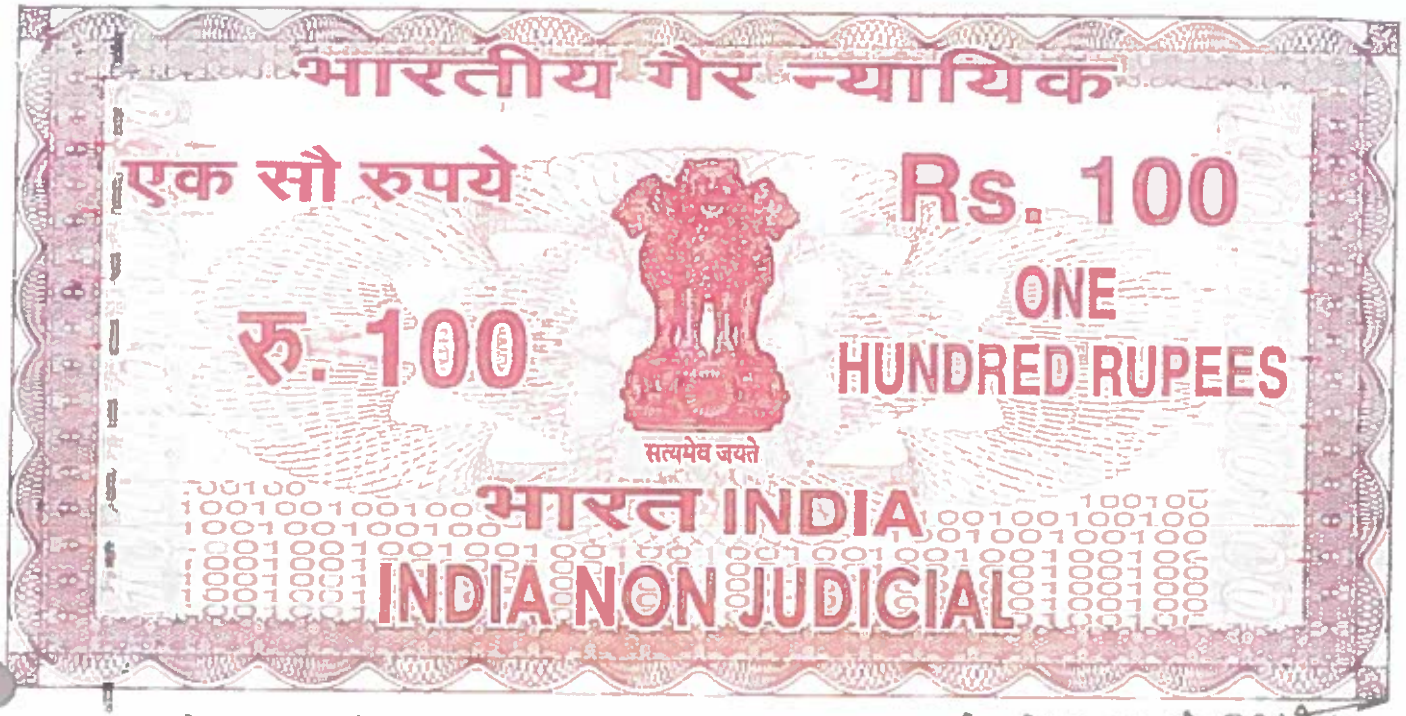
(SURAJ CHAWLA)

Vignan Institute of Engineering for Women

PRINCIPAL

(Dr. J. SUDHAKAR)

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49



आंध्र प्रदेश आन्ध्र प्रदेश ANDHRA PRADESH CH 848506

2958 100/- 28-8-2019

Dr. J. Sudhakar S/o Arjuna. VSP

Vignan Institute of Engineering for women. VSP

AGREEMENT

THIS AGREEMENT is entered into on this 30TH day of August 2019 by and between Electronics & ICT Academy at NATIONAL INSTITUTE OF TECHNOLOGY, Warangal (E&ICT-NITW), with offices at Floor I, C-Block, National Institute Technology, Warangal - 506004 ("Academy"), which is an initiative Ministry of Electronics & Information Technology, Government of India, New Delhi.

And

Vignan's Institute of Engineering for Women, Near Sheelanagar, Kapujaggarajupeta, Visakhapatnam-530046 which is a Engineering College in India ("Beneficiary Unit") offering academic programmes to the students in the areas of Engineering, Science and Technology.

WHEREAS, Academy organizes various programmes to improve the quality of teaching, quality of education in the areas of Computer Science & Engineering, Information Technology, Electronics & Communication Engineering and other allied areas and Beneficiary Unit wishes send its faculty/personnel to attend Faculty Development Programmes with the aim to improve their quality of teaching and also the quality of education they impart through their academic programmes to the students enrolled in.

निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान,
Director
National Institute of Technology, Warangal

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

NOW THEREFORE, the Beneficiary Unit agrees to the following terms and conditions of the Academy and shall sign this Agreement, in acceptance of the terms and conditions of the Academy as set out hereunder.

1. GRANT OF PERMISSION.

Subject to the terms and conditions of the Agreement, Academy grants to the Beneficiary Unit, a non-exclusive, non-transferable number of seats, to participate in the Faculty Development Programmes (FDPs) to be offered during one year from the effective date of this agreement. Beneficiary Unit can send any number of participants subject to total number of seats consumed in a year from the effective date is within the limit of its granted number of seats. All such participants sent by Beneficiary Unit need not pay registration fee prescribed for those FDPs and can avail all the benefits offered by the coordinator of FDP to any other participant who pay registration fee as individuals. Beneficiary Unit can send a faculty/person to attend any number of FDPs, but however each time that a faculty/person attending a FDP will be counted as a seat consumed by Beneficiary Unit. However, it cannot transfer its granted seats to any other institute/college/University or even to any other college/institute/university of their own management/administration located at a place different from the address of the Beneficiary Unit. In case, Beneficiary Unit is a member of group of institutions or in chain of institutions owned by same Management/administration and that Management/administration is interested to extend the benefits to their other institutes located at different locations, each such institute should sign an agreement with the academy. Here, the "institutes located at different locations" means the institutes set up at different towns/cities/villages. However, two or more institutes owned by the same management/administration and located in the same town/city/village will be treated as a Beneficiary Unit. Total number of seats granted to a Beneficiary Unit will be lapsed on 366th day from the effective date of this agreement and any number of seats unutilized by Beneficiary Unit will be not be carried over to the next year. Beneficiary Unit can send their faculty/personnel to a FDP if its starting date of FDP is within 365 days from the effective date.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

2. CONSIDERATION

a. Beneficiary Unit should have paid the Annual Fee.
b. Annual fee is fixed as follows for a year from the effective date and it includes registration fee to be paid by the participants from that Beneficiary Unit subject to total number of seats benefitted in a year from the effective date is within the limit of its granted number of seats.

Type	Annual fee in Rs.	Number of seats granted to Beneficiary Unit to avail within a year i.e. 365 days from effective date.
Platinum	4.00 lakhs	100 faculty registrations
Gold	2.00 lakhs	50 faculty registrations
Silver	1.00 lakh	25 faculty registrations

निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान, वरंगल
Director
National Institute of Technology, Warangal

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

3. GRANTED SEATS

Beneficiary Unit agrees to note and avail the number of granted seats by sending their faculty/personnel to attend FDPs organized by E&ICT-NITW at various locations including at Warangal and including at the location of Beneficiary Unit. Frequently, E&ICT-NITW organizes FDPs at various institutes/colleges/Universities as joint programmes of host institutes and E&ICT-NITW subject to certain terms and conditions. In case Beneficiary Unit comes forward and organizes FDP as host institute jointly with E&ICT-NITW, then Beneficiary Unit can allow its faculty/personnel to participate in such FDP and each participant will consume a seat granted as per this agreement. Any other subsidy/complimentary seats offered to the host institute organizing FDP jointly with E&ICT-NITW will be extended to Beneficiary Unit provided that Beneficiary Unit is the host institute of the FDP and such complimentary seats will not consume any granted seats.

4. OWNERSHIP

Faculty Development Programmes organized by E&ICT-NITW are owned by E&ICT-NITW and Beneficiary Unit should not consider as their programmes. However, any Faculty Development Programme (FDP) organized at an institute/college/university by E&ICT-NITW at any location other than NIT-Warangal will be joint programme of that institute/college/university as host institute and of E&ICT-NITW subject to E&ICT academy's terms and conditions which are in no way related to this agreement. Beneficiary Unit is welcome to come forward to organize such FDPs as host institute and it is independent of this agreement.

5. PROPRIETARY RIGHTS

Beneficiary Unit is cognizant that E&ICT-NITW regards its Faculty Development Programs (FDPs) as its proprietary activities and as confidential trade secrets of great value. Beneficiary Unit agrees not to advertise or publicize this agreement for the benefit of improving its brand name. This agreement does not entitle Beneficiary Unit to claim as it is part of or partner of E&ICT-NITW. In no way E&ICT-NITW will directly or indirectly involve in the business or academic pursuits of Beneficiary Unit. THE STAKE HOLDERS OR PROSPECTIVE STUDENTS OF BENEFICIARY UNIT SHOULD NOT BE LURED BASES ON THIS AGREEMENT.

6. TERM

The term or period of validity granted hereby is initially valid for a period of one year i.e. 365 days, from the date of signing this Agreement and it shall continue to extend validity for a year upon payment of Annual Fee in force at that time. Such extensions of validity can be made three times based on this agreement. The granted number of seats is valid during the period of validity, unless and until terminated pursuant to Section 7 hereof and subject to Beneficiary Unit's proper performance of its obligations hereunder.

निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान
Director
National Institute of

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

7. TERMINATION

E&ICT-NITW may terminate this Agreement if Beneficiary Unit is in default of any of the terms and conditions of this Agreement and fails to correct such default within ten (10) days after written notice thereof from E&ICT-NITW. Upon termination or expiry of the agreement, all unused seats on that day and time of termination automatically surrender to E&ICT-NITW. On termination, no amount will be paid back/returned by E&ICT-NITW to the Beneficiary Unit. E&ICT-NITW provides no material or no support to Beneficiary Unit after termination.

8. TERMINATION CERTIFICATE

In the event of termination, Beneficiary Unit will immediately discontinue use of granted seats within ten days after the termination of this Agreement. Beneficiary Unit will furnish to E&ICT-NITW A certificate, which certifies with unused seats at the instant of termination time automatically surrender to E&ICT-NITW. The provisions of Sections 4, 5, 8,11, and 13 here of shall survive any termination of this Agreement.

9. SUPPORT

E&ICT-NITW organizes FDPs of six days or ten days duration throughout the year in the areas of Computer Science & Engineering, Information Technology, Electronics & Communication Engineering and other allied areas. Normally, it has the objective goal of conducting around 60 numbers of FDPs in the above said areas put together. E&ICT-NITW will communicate information about these FDPs to Beneficiary Unit and also publish in its website at www.nitw.ac.in/eict/ . Beneficiary Unit can look at the information and send its faculty/personnel as participants in such FDPs. However, E&ICT-NITW do not assure or guarantees the Beneficiary Unit to organize FDP in an area of Beneficiary Unit's choice or at its choice of location. Beneficiary Unit can always request E&ICT-NITW to organize FDP in a particular area of Computer Science & Engineering, Information Technology, Electronics &Communication Engineering, but it is not binding on E&ICT-NITW to oblige such request and organize it. E&ICT-NITW always plan to organize FDPs covering basic courses, core courses, elective courses, thrust areas of Computer Science & Engineering, Information Technology, Electronics & Communication Engineering and the areas suggested by high level teams permitted by Ministry of Electronics & Information Technology, Government of India.

10. WARRANTY DISCLAIMER

E&ICT-NITW offers Faculty Development Programmes (FDPs), and Beneficiary Unit accepts, the FDPs "AS IS." E&ICT-NITW PROVIDES NO WARRANTIES AS TO THE FUNCTION OR USE OF FDPs, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE PRODUCT, MATERIAL, INFORMATION, QUALITY AND

निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान
Director
National Institute of Technology

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

PERFORMANCE, OF FDP IS WITH E&ICT-NITW AND NIT Warangal SHALL IN NO EVENT BE LIABLE FOR ANY LOSS, DAMAGE, COST OR CONSEQUENCE RELATING TO THE USE OF THE FDP.
E&ICT-NITW DOES NOT WARRANT THAT THE FUNCTIONS/CONTENT DELIVERY THROUGH THE FDPs WILL MEET BENEFICIARY UNIT'S REQUIREMENTS OR THAT THE OPERATION OF THE FDPs WILL BE UNINTERRUPTED OR ERROR FREE.

11. LIMITATION OF LIABILITY

IN NO EVENT SHALL E&ICT-NITW BE LIABLE FOR INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF USE, LOSS OF PROFITS OR INTERRUPTION OF BUSINESS OF BENEFICIARY UNIT, HOWEVER CAUSED OR ON ANY THEORY OF LIABILITY.

12. INDEMNITY

Beneficiary Unit will defend, indemnify and hold harmless the E&ICT-NITW, its Chair, Chief Investigator, Co-Chief Investigator, members or employees or director and employees of NIT Warangal from and against all liability, damages, costs (including attorney's fees and expenses) arising out of any action brought against it (or any such party) based on a claim relating to the terms and conditions or the numbers of seats granted in this agreement.

13. NOTICES

All notices in connection with this Agreement shall be in writing and may be given by certified, registered, or mail or personally delivered at the address set forth on the front page. For purposes of this Agreement, a notice shall be deemed effective upon personal delivery to the party or if by mail five days after proper deposit in a mail box.

14. SUCCESSORS

This Agreement will be binding upon and will insure the benefit of E&ICT-NITW and Beneficiary Unit hereto and their respective representatives, successors in interest and permitted assignees except as otherwise provided herein.

15. SEVERABILITY

In the event any provision of this Agreement is determined to be invalid or unenforceable, the remainder of this Agreement shall remain in force as if such provision were not a part.

16. GOVERNING LAW/FORM

This Agreement shall be governed and interpreted by the laws of the State of Telangana. The parties submit to the exclusive jurisdiction of the courts located at Hyderabad only.

निदेशक
राष्ट्रीय प्रौद्योगिकी संस्थान
Director
National Institute of Technology

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

17. NON-ASSIGNMENT

This Agreement and the seats granted by E&ICT-NITW may not be assigned, sublicensed, disseminated or distributed to any other party or otherwise transferred by Beneficiary Unit to any other institute/college/University or even to any other college/institute/university of their own management/administration located at a place different from the address of the Beneficiary Unit. Here, the "institutes located at different locations" means to institutes set up at different towns/cities/villages. However, two or more institutes owned by the same management/administration and located in the same town/city/village will be treated as a Beneficiary Unit.

18. ENTIRE AGREEMENT

This Agreement sets forth the entire understanding between the parties with respect to the subject matter hereof, and merges and supersedes all prior agreements, discussions and understandings, express or implied, concerning such matters. This Agreement shall take precedence over any additional or conflicting terms which may be contained in Beneficiary Unit's any other kind of agreements with NIT Warangal or with E&ICT-NITW or with any order or acknowledgement for E&ICT-NITW.

19. Arbitration:

All disputes shall be tried and resolved amicably by negotiations. Otherwise, it shall be referred to a sole arbitrator, to be appointed by the parties herein, under Indian Arbitration and Conciliation Act, 1996. The Jurisdiction of the court shall be at Hyderabad (capital of Telangana State) only.

IN WITNESS WHEREOF, the parties here in, have hereunto put their hands and seal on the day, month and year first hereinabove written.

N.V.

Director, NIT Warangal
Chief Patron, निदेशक
Electronics & ICT Academy, वरंगल
National Institute of Technology
Warangal - 506004

Director
National Institute of Technology, Warangal

Vignan's Institute of Engineering for Women
Near Sheelanagar,
Kapujaggarajupeta,
Visakhapatnam – 530046.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

PRINCIPAL
Principal,
Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (P.O.)
Visakhapatnam-49.

Witnesses:

1. B. Prakash (Dr. B. PRAKASH)
2. (Dr. K. Vijaya Kumar)
3. RBV (Prof RBV SUBRAMANYAM)

DATAPRO COMPUTERS PVT. LIMITED
COMPUTER EDUCATION DIVISION
D.No.- 6-60-8/2/2, Beside MVR Degree College,
Sramika Nagar, Chinagantyada, Old Gajuwaka,
VISAKHAPATNAM - 530 026. Ph : 0891-2745685

Approved Partner of : N·S·D·C National Skill Development Corporation

datapro EMPOWERING SKILLS ISO 9001 : 2015 CERTIFIED www.datapro.in

MEMORANDUM OF UNDERSTANDING

This MOU is made on this Day 16.07.2019

Between

M/s. Datapro Computers Pvt. Limited, located Beside MVR Degree College, Chinagantyada, Old Gajuwaka, represented by its Center Head Mr. N.B.VARA PRASAD. (Hereafter to be referred as (First Party)

And

Vignan Engineering Women's, located at VSEZ Kapujaggaraju peta, Duvvada represented by team headed by the principal Dr. A. Sesha Rao Professor hereafter to be referred as (SECOND PARTY)

Basing on the series of discussions, it is decided that DATAPRO would provide

- The necessary Faculty to impart the training to the ECE Third year students of Vignan Engg College for Women at your college premises, the training fee per student is decided to fix at Rs.3000/-.
- As per the discussion held earlier the management agreed to streamline minimum 50 students or even more if required.
- Six days day a week i.e., Three days theory and Three days training classes would be imparted on the scheduled time basis, two hours per day (according to the flexibility of the college Management).
- The course would begin on second week of July 2019 and ends by October ending.
- The daily Attendance report and the performance of individual student will be taken and be submitted to the College authorities by the end of the course.
- The training program includes a hard copy C language, C++, Core java Material, Datapro Course completion certificate per participant.
- After Completion of course students must and should fill the Feedback form.

Vignan Engineering College for Women would provide:

- The necessary infrastructure that includes the Class Room, LCD Project, and Lab Facility.
- Would look into the aspect of deputing students of related discipline to the Class for their optimum utilization of the service.
- Would appoint an authorized person who can closely monitor the sessions and smooth functioning of the Computer Classes being taken up at college premises.
- 50% of the payment should be paid (by cash or cheque) before the training session begins. The remaining payment should be done on or before the last week of the course.

We would appreciate the long term association with your college and provide the best services further.

Thank you,

For Datapro Computers Pvt. Ltd.

CENTER MANAGER
(N.B.VARA PRASAD)

DATAPRO COMPUTERS PVT. LTD. GAJUWAKA

16/7/19
PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

30.11.19
ACADEMIC DIRECTOR
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

DATAPRO COMPUTERS PVT. LIMITED
COMPUTER EDUCATION DIVISION
D.No.- 6-60-8/2/2, Beside MVR Degree College,
Sramika Nagar, Chinagantyada, Old Gajuwaka,
VISAKHAPATNAM - 530 026. Ph : 0891-2745685

Approved Partner of
N·S·D·C National Skill Development Corporation

datapro
EMPOWERING SKILLS
ISO 9001 : 2015 CERTIFIED
www datapro in

Date : 16-07-2019

QUOTATION.

Sub: Imparting Software Courses Training program to all the students

C. C++,Core Java 60Hrs Theory 60Hrs Practical 3000 per Head

(Material and Certificates will be provided)

Mode of Payment should be done in the above mentioned process

- First payment - 20000/- C language (Beginning)
- Second payment - 20000/- C++ (Beginning)
- Third payment - 20000/- Core Java (Beginning)
- Fourth payment - Balance payment should be finished within the last week of class sessions.

Terms & Conditions

1. Training Will be at your premises as per convince. Software Courses training will be provided along with an appropriate trainer.
2. The classroom will be provided by the college.
3. Would look into the aspect of deputing students of related discipline to the class for their optimum utilization of the service.
4. Would appoint an authorized person who can closely monitor the sessions so as to the smooth functioning of the project, being taken up at college premises.
5. The payment of 50 % of Total payment as being done during the classes. Balance 50% of the payment should be done within the last week of class sessions.
6. Training for students above 40 members at your campus..
7. PAYMENT: Payment shall be made in favour of SRK ISI PVT. LTD.

30.11.19
ACADEMIC DIRECTOR
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

30/11/19
PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

For DATAPRO COMPUTERS PVT. LTD.
GAJUWAKA BRANCH
N.B.V.PRASAD

DATAPRO COMPUTERS PVT. LTD. GAJUWAKA

Authorized Signatory

Registered Office : 9-14-1, Flat No. : 301 & 302, 2nd Floor, Sai Centre, VIP Road, CBM Compound,
Siripuram, Visakhapatnam - 530 003, Andhra Pradesh, India. Ph : 0891-2507227, 2707227
E-mail : info@datapro.in Website : www.datapro.in

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone : 9133300357, 8886066339 :: Fax : 0891-2010485
E-mail : view.office2008@gmail.com, viewprincipal@gmail.com website : www.vignanview.org

MEMORANDUM OF UNDERSTANDING (MOU)

Between

Vignan's Institute of Engineering for Women (VIEW)

And

Green Waves Environmental Solution

This Memorandum of Understanding is made and executed in Visakhapatnam on the 2nd January 2019. This MOU signifies a statement of intent for collaboration between.

Green Waves Environmental Solution, having its office address situated at D.No.43/1, Mindhi village, Gajuwaka, Visakhapatnam. Andhra Pradesh -530026 herein after called as the **FIRST PARTY.**

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN, Kapujaggaraupeta, VSEZ Post, Visakhapatnam-530046, Andhra Pradesh State, India is approved by AICTE, New Delhi & affiliated to JNTU, Kakinada represented by Authorized Signatory, herein after called as the **SECOND PARTY.**

Company policy **GREEN WAVES ENVIRONMENTAL SOLUTIONS.**

1. We provide you complete guideline on e-waste management in your plant/place/area.
2. E-waste lifting dates will be given a week before.
3. Packing and transportation of your E-waste is our responsibility.
4. All the e-waste records of your company will be confidential.
5. Any payment should be in name of GREEN WAVES ENVIRONMENTAL SOLUTIONS (GREENWAVES RECYLERS is only trade name).
6. The payments of your e-waste are given on E-waste lifting day or the next day.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

7. We provide all the necessary certificate or receipts or bill as pre your requirements.
8. GREEN WAVES ENVIRONMENTAL SOLUTIONS also makes up cycling objects from your E-waste donations, thus it saves our environment.

Academic Services

Green Waves Environmental Solutions has been giving a presentation on green practices and Green projects on waste management to Vignan's Institute of Engineering for Women students. And this has been helping the students to get real time experience on this area. Green waves Environmental Solution has extended its experience in developing practical knowledge in students towards environment and its importance.

As we signed a 3 years agreement we have provided e-services such as designing your e-waste storage facilities and giving E-bins.

E-Bins- where you have your logo on the bins which help to show your company commitment towards storage of E-waste And we collect and take the e-waste in the bin for free, as the bin and services costs us And we request to keep mouse keyboards and other small E-waste materials like cable wire into it.

Note- No cartridges and tube light are dropped into the E-bins and you can also be sponsors for our company E-waste awareness program or E-drives at residential places by just donating your E-waste freely to us.

Duration

As this MOU became effective upon signature by the authorized officials from Green waves Environmental Solutions and Vignan's Institute of Information Technology and it is for THREE years from the date of execution.

This Memorandum of Understanding (MOU) sets for the terms and understanding between the Green Waves Environmental Solutions and Vignan's Institute of Engineering for Women for disposal of E-waste.

Background

According to E-waste Management act 2016, the disposal of e-waste had to take care by only authorized recyclers, in Andhra Pradesh. Green Waves Environmental Solutions Company deals with collection and dismantling of e waste with its innovative & environment friendly disposal practices. Green waves Environmental Solutions is the first authorized E-waste collection and handling unit in Andhra Pradesh recognize by Andhra Pradesh Pollution Control Board.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Purpose

This MOU is for collection and handling of E-waste in Vignan's Institute of Engineering for Women by Green waves Environmental Solutions as pre E-waste Management act 2016.

Quotation

PRICE DETAILS-

As per your request, we are pleased to submit our financial quote for safe and scientific disposal of E-waste. Normally the E-waste which is hazardous in nature has to be disposed by paying the disposal charges by the generator. However recyclable portion of E-waste we pay for below items.

Waste Electronic / Electrical Material Price per Kg CPU'S, Monitors, Printers, Scanners, batteries motors, SMPS photo copiers Keyboards, mouse, cables, other electronic /electric items Rs.10**/- per Kg if all the parts in the Waste Electronic / Electrical Material are present Price per Kg will be 13**/- per kg & cable waste Rs.30 per Kg.

Disposal charges to be borne by generator Description of waste Disposal charges to be borne by generator. Tube light waste Rs.120/- Cartridges Rs.35/- Taxes Including all Taxes & Duties. Note:

1. Form -6 (Hazardous Waste Transport Manifest) and Form-2 shall be issued at the time of lifting and the same shall be signed by you
2. Disposal certificate will be issued within a week after the sale/Disposal

The above defined quotations will be subjected to be active for THREE Years only from the date the signature took place.

AGREED AND ACCEPTED

For Green waves Environmental Solutions.

Mr.P.Anil Chowdary
Founder & MD
Green waves Environmental Solutions.

D.No.43/1,
Mindhi village,
Gajuwaka,
Visakhapatnam- 530026
Date: _____

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49.

For Vignan's Institute of Engineering for Women

Dr.J.Sudhakar
Principal
Vignan's Institute of Engineering for Women
Kapujaggarajupeta,
VSEZ Post,
Visakhapatnam
Andhra Pradesh-530046
Date: _____

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

GREEN WAVES
ENVIRONMENTAL SOLUTIONS

Certificate of Recycling

GreenWaves Environmental Solutions
Reference:GWES0216045
Authorisation:2/APPCB/E-Waste/2016

Organisation Name VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

GreenWaves Environmental Solutions Would like to thank and present this certificate for recycling obsolete electronic waste.

Weight: 750 KGS

Date: 31.01.2020

All The Material has been collected and handled in an environment friendly manner, in accordance with the guidelines set by the **Central Pollution Control Board**.We encourage you to continue the support for E-Waste management in environmentally friendly manner.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Potluri Anil Chowdary
Managing Director
GreenWaves Environmental Solutions

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

APITA Andhra Pradesh Information Technology Academy

And

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

(Approved by AICTE, New Delhi: Affiliated to JNTUK, Kakinada)

FOR

PROVIDING TRAINING ON SOFT SKILLS, EMPLOYABBILITY SKILLS, CAPACITY BUILDING PROGRAMMES ON LIFE SKILLS

VISAKHAPATNAM * VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN * 49

PRINCIPAL
Vignan's Institute of
Engineering for Women
VSEZ (P.O.),
-49.

ANDHRA PRADESH INFORMATION TECHNOLOGY ACADEMY

(GOVERNMENT OF ANDHRA PRADESH)

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

This Memorandum of Understanding (MoU)) must be mutually signed by both the parties

Andhra Pradesh Information Technology Academy constituted by Government of Andhra Pradesh will hereafter be referred as APITA, which expression unless it be repugnant to the context or meaning thereof shall mean and include its successors and assigns as **First Party** to this MoU.

This letter of Academic Collaboration is entered on this 07thday May of 2022 by and between **Vignan's Institute of Engineering for Women, Visakhapatnam and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada.** Vignan's Institute of Engineering for Women and Sciences and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada, agree that cooperation in all academic collaborations and student and faculty exchanges would be mutually beneficial. The **Second Party** of this MoU.

A. **The First Party** – APITA is formed by the Government of Andhra Pradesh and was registered on 01-06-2016 at Vijayawada in place of Schedule-X Institution as per AP Reorganization Act 2014 "INSTITUTE FOR ELECTRONIC GOVERNANCE (IEG)/IKC established in the year 2004. Andhra Pradesh to train students under the name of "Amaravati Knowledge Center/JKC". The main objectives of APITA are to – support capacity building initiatives of ITE&C Dept; develop and offer courses in IT Electronics and Communications in collaboration with the industry; bridge the urban rural divide in producing readily employable graduates; offer consultancy support in capacity building programmes; provide conducive environment for learning through value addition programmes; promote a culture of research and development in IT, Electronics and Communications; facilitate e-governance programmes for state government employees; collaborate with industry, education and research institutions for the promotion and development of e-governance.

B. **The Second Party** –Vignan's Institute of Engineering for Women is one of the best women educational institutions in Visakhapatnam District, Andhra Pradesh (A.P). It is located in Kappujaggarajupeta, VSEZ (Post), Visakhapatnam to provide global and holistic education in a healthier environment in 6.9 acres of beautiful greenery campus. The campus is housed amidst industrial atmosphere conducive for vibrant Industry-Institute Interaction. Since its inception in 2008, the institution has been contributing its fullest in producing global technocrats, managers and professionals of excellence to equip the Indian industry with cutting edge expertise and awareness. The Institute is bestowed with qualified and experienced faculty and the state-of-the art Infrastructure. The institution offers various courses in Engineering stream like EEE, ECE, CSE and IT at the Graduate level and MBA and M.Tech at the Post Graduate level. VIEW provide a variety of stimulating environments for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills,insights,attitudes and practical experiences that are necessary to take up responsibilities in the society.

B. Mothilal Naik

Scope of the MOU

The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

1. Workshops and training programmes on Soft Skills and Employability skills.
2. Organizing capacity building programmes on Life skills.
3. Supporting the institution in placement drives and related trainings.
4. Campus training programmes for Faculty Development on Teaching Learning Technologies.

TERMS OF THE AGREEMENT

The AGREEMENT shall be effective from the date of execution and shall remain in force for a period of 1 year only.

1. PROMOTION, BRANDING & PUBLISHING

It is agreed and understood that all press releases or other public communications of any sort relating to this Agreement or the transactions contemplated between the Party Vignan's Institute of Engineering for Women, including the method of release of the publication, other than the announcement herein, shall be subject to the mutual approval of Vignan's Institute of Engineering for Women & APITA.

2. TERMINATION

Each Party has the right to terminate this AGREEMENT by giving 1 Months advance notice to the other Party or on a mutually agreeable basis.

The address for service of notice to the respective Part Vignan's Institute of Engineering for Women is as given below:

Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (Post)
Visakhapatnam (A.P) – 530049, India.

Andhra Pradesh Information Technology Academy (APITA)
3rd Floor, Room No: 317, R& B Building
M.G. Road, Labbipet,
Vijayawada Andhra Pradesh – 520 010

Either party may change its mailing address by written notice to the college in accordance with this paragraph. The party this college may also later decide upon sharing each other's email ID for such notices etc.

B. Mothilal Naik

2

3. COMPLIANCE & REGULATIONS

The part Vignan's Institute of Engineering for Women represent and warrant they currently comply with all applicable domestic anti-bribery or anti-corruption laws, including those prohibiting the bribery of Government Officials, and will remain in compliance with all applicable laws; that It will not authorize, offer or make payments directly or indirectly to any Government Official; and that no part of the payments received (whether compensation or otherwise) from each other will be used for any purpose that could constitute a violation of any applicable laws.

4. GOVERNING LAW & JURISDICTION

This Agreement shall be governed by and constructed in accordance with the laws of India, without giving effect to its choice of laws rules shall be submitted to the exclusive jurisdiction of the courts of Vijayawada, Andhra Pradesh state.

IN WITNESS WHEREOF, the duly authorized representatives of the Party Vignan's Institute of Engineering for Women have caused this Agreement to be executed on the date first written above:

For& On behalf of Vignan's Institute of Engineering for Women, Visakhapatnam.	**For & On behalf of Andhra Pradesh Information Technology Academy (APITA)**
Name: Dr.J.Sudhakar **Designation: Principal** **Place: Visakhapatnam** **Date:** 07-05-22	B. Mothilal Naik **Name: B.Mothilal Naik** **Designation: Director Academic Affairs** **Place: Vijayawada** **Date:**

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Witnesses 1: Name: Designation: Place: Date:	**Witnesses 2:** K. Sridhar **Name: K.Sridhar** **Designation: DDM** **Place: Visakhapatnam** **Date:**

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

APITA Andhra Pradesh Information Technology Academy

And

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

(Approved by AICTE, New Delhi:: Affiliated to JNTUK, Kakinada)

FOR

PROVIDING TRAINING ON SOFT SKILLS, EMPLOYABBILITY SKILLS, CAPACITY BUILDING PROGRAMMES ON LIFE SKILLS

PRINCIPAL
Vignan's Institute of Engineering for Women
Deta, VSEZ (P.O.),
Visakhapatnam-49.

ANDHRA PRADESH INFORMATION TECHNOLOGY ACADEMY

(GOVERNMENT OF ANDHRA PRADESH)

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

This Memorandum of Understanding (MoU)) must be mutually signed by both the parties

Andhra Pradesh Information Technology Academy constituted by Government of Andhra Pradesh will hereafter be referred as APITA, which expression unless it be repugnant to the context or meaning thereof shall mean and include its successors and assigns as **First Party** to this MoU.

This letter of Academic Collaboration is entered on this 04th day March of 2021 by and between **Vignan's Institute of Engineering for Women, Visakhapatnam and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada.** Vignan's Institute of Engineering for Women and Sciences and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada, agree that cooperation in all academic collaborations and student and faculty exchanges would be mutually beneficial. The **Second Party** of this MoU.

A. **The First Party** – APITA is formed by the Government of Andhra Pradesh and was registered on 01-06-2016 at Vijayawada in place of Schedule-X Institution as per AP Reorganization Act 2014 "INSTITUTE FOR ELECTRONIC GOVERNANCE (IEG)/JKC established in the year 2004. Andhra Pradesh to train students under the name of "Amaravati Knowledge Center/JKC". The main objectives of APITA are to – support capacity building initiatives of ITE&C Dept; develop and offer courses in IT Electronics and Communications in collaboration with the industry; bridge the urban rural divide in producing readily employable graduates; offer consultancy support in capacity building programmes; provide conducive environment for learning through value addition programmes; promote a culture of research and development in IT, Electronics and Communications; facilitate e-governance programmes for state government employees; collaborate with industry, education and research institutions for the promotion and development of e-governance.

B. **The Second Party** –Vignan's Institute of Engineering for Women is one of the best women educational institutions in Visakhapatnam District, Andhra Pradesh (A.P). It is located in Kappujaggarajupeta, VSEZ (Post), Visakhapatnam to provide global and holistic education in a healthier environment in 6.9 acres of beautiful greenery campus. The campus is housed amidst industrial atmosphere conducive for vibrant Industry-Institute Interaction. Since its inception in 2008, the institution has been contributing its fullest in producing global technocrats, managers and professionals of excellence to equip the Indian industry with cutting edge expertise and awareness. The Institute is bestowed with qualified and experienced faculty and the state-of-the art Infrastructure. The institution offers various courses in Engineering stream like EEE, ECE, CSE and IT at the Graduate level and MBA and M.Tech at the Post Graduate level. VIEW provide a variety of stimulating learning environments for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills,insights,attitudes and practical experiences that are necessary to take up responsibilities in the society.

PRINCIPAL
Engineering for Women
K.J.Post, VSEZ
Visakhapatnam

B. Mothilal Naik

Scope of the MOU

The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

1. Workshops and training programmes on Soft Skills and Employability skills.
2. Organizing capacity building programmes on Life skills.
3. Supporting the institution in placement drives and related trainings.
4. Campus training programmes for Faculty Development on Teaching Learning Technologies.

TERMS OF THE AGREEMENT

The AGREEMENT shall be effective from the date of execution and shall remain in force for a period of 1 year only.

1. **PROMOTION, BRANDING & PUBLISHING**

   It is agreed and understood that all press releases or other public communications of any sort relating to this Agreement or the transactions contemplated between the Party Vignan's Institute of Engineering for Women, including the method of release of the publication, other than the announcement herein, shall be subject to the mutual approval of Vignan's Institute of Engineering for Women & APITA.

2. **TERMINATION**

   Each Party has the right to terminate this AGREEMENT by giving 1 Months advance notice to the other Party or on a mutually agreeable basis.

The address for service of notice to the respective Part Vignan's Institute of Engineering for Women is as given below:

Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (Post)
Visakhapatnam (A.P) – 530049, India.

Andhra Pradesh Information Technology Academy (APITA)
3rd Floor, Room No: 317, R& B Building
M.G. Road, Labbipet,
Vijayawada Andhra Pradesh – 520 010

Either party may change its mailing address by written notice to the college in accordance with this paragraph. The party this college may also later decide upon sharing each other's email ID for such notices etc.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

B. Mothilal Naik

3. COMPLIANCE & REGULATIONS

The part Vignan's Institute of Engineering for Women represent and warrant they currently comply with all applicable domestic anti-bribery or anti-corruption laws, including those prohibiting the bribery of Government Officials, and will remain in compliance with all applicable laws; that It will not authorize, offer or make payments directly or indirectly to any Government Official; and that no part of the payments received (whether compensation or otherwise) from each other will be used for any purpose that could constitute a violation of any applicable laws.

4. GOVERNING LAW & JURISDICTION

This Agreement shall be governed by and constructed in accordance with the laws of India, without giving effect to its choice of laws rules shall be submitted to the exclusive jurisdiction of the courts of Vijayawada, Andhra Pradesh state.

IN WITNESS WHEREOF, the duly authorized representatives of the Party Vignan's Institute of Engineering for Women have caused this Agreement to be executed on the date first written above:

For& On behalf of Vignan's Institute of Engineering for Women, Visakhapatnam.	For & On behalf of Andhra Pradesh Information Technology Academy (APITA)
Name: Dr.J.Sudhakar Designation: Principal Place: Visakhapatnam Date:	Name: B.Mothilal Naik Designation: Director Academic Affairs Place: Vijayawada Date:

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Witnesses 1:	Witnesses 2:
Name: Designation: Place: Date:	Name: KSridhar Designation: DDM Place: Visakhapatnam Date:

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

APITA Andhra Pradesh Information Technology Academy

And

PRINCIPAL
Vignan's Institute of Engineering for Women
Duvvada, VSEZ (P.O.),
Visakhapatnam-49.

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

(Approved by AICTE, New Delhi::Affiliated to JNTUK, Kakinada)

FOR

PROVIDING TRAINING ON SOFT SKILLS, EMPLOYABBILITY SKILLS, CAPACITY BUILDING PROGRAMMES ON LIFE SKILLS

ANDHRA PRADESH INFORMATION TECHNOLOGY ACADEMY

(GOVERNMENT OF ANDHRA PRADESH)

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

This Memorandum of Understanding (MoU)) must be mutually signed by both the parties

Andhra Pradesh Information Technology Academy constituted by Government of Andhra Pradesh will hereafter be referred as APITA, which expression unless it be repugnant to the context or meaning thereof shall mean and include its successors and assigns as **First Party** to this MoU.

This letter of Academic Collaboration is entered on this 05th day March of 2020 by and between **Vignan's Institute of Engineering for Women, Visakhapatnam and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada.** Vignan's Institute of Engineering for Women and Sciences and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada, agree that cooperation in all academic collaborations and student and faculty exchanges would be mutually beneficial. The **Second Party** of this MoU.

A. **The First Party** – APITA is formed by the Government of Andhra Pradesh and was registered on 01-06-2016 at Vijayawada in place of Schedule-X Institution as per AP Reorganization Act 2014 "INSTITUTE FOR ELECTRONIC GOVERNANCE (IEG)/IKC established in the year 2004. Andhra Pradesh to train students under the name of "Amaravati Knowledge Center/IKC". The main objectives of APITA are to – support capacity building initiatives of ITE&C Dept; develop and offer courses in IT Electronics and Communications in collaboration with the industry; bridge the urban rural divide in producing readily employable graduates; offer consultancy support in capacity building programmes; provide conducive environment for learning through value addition programmes; promote a culture of research and development in IT, Electronics and Communications; facilitate e-governance programmes for state government employees; collaborate with industry, education and research institutions for the promotion and development of e-governance.

B. **The Second Party** –Vignan's Institute of Engineering for Women is one of the best women educational institutions in Visakhapatnam District, Andhra Pradesh (A.P). It is located in Kappujaggarajupeta, VSEZ (Post), Visakhapatnam to provide global and holistic education in a healthier environment in 6.9 acres of beautiful greenery campus. The campus is housed amidst industrial atmosphere conducive for vibrant Industry-Institute Interaction. Since its inception in 2008, the institution has been contributing its fullest in producing global technocrats, managers and professionals of excellence to equip the Indian industry with cutting edge expertise and awareness. The Institute is bestowed with qualified and experienced faculty and the state-of-the art Infrastructure. The institution offers various courses in Engineering stream like EEE, ECE, CSE and IT at the Graduate level and MBA and M.Tech at the Post Graduate level. VIEW provide a variety of stimulating environments for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up responsibilities in the society.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ P.O.
Visakhapatnam-530049

B. Mothilal Naik

Scope of the MOU

The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

1. Workshops and training programmes on Soft Skills and Employability skills.
2. Organizing capacity building programmes on Life skills.
3. Supporting the institution in placement drives and related trainings.
4. Campus training programmes for Faculty Development on Teaching Learning Technologies.

TERMS OF THE AGREEMENT

The AGREEMENT shall be effective from the date of execution and shall remain in force for a period of 1 year only.

1. **PROMOTION, BRANDING & PUBLISHING**

   It is agreed and understood that all press releases or other public communications of any sort relating to this Agreement or the transactions contemplated between the Party Vignan's Institute of Engineering for Women, including the method of release of the publication, other than the announcement herein, shall be subject to the mutual approval of Vignan's Institute of Engineering for Women & APITA.

2. **TERMINATION**

   Each Party has the right to terminate this AGREEMENT by giving 1 Months advance notice to the other Party or on a mutually agreeable basis.

The address for service of notice to the respective Part Vignan's Institute of Engineering for Women is as given below:

Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (Post)
Visakhapatnam (A.P) – 530049, India.

Andhra Pradesh Information Technology Academy (APITA)
3rd Floor, Room No: 317, R& B Building
M.G. Road, Labbipet,
Vijayawada Andhra Pradesh – 520 010

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PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.).
Visakhapatnam-49.

B Mathibal Naik

3. COMPLIANCE & REGULATIONS

The part Vignan's Institute of Engineering for Women represent and warrant they currently comply with all applicable domestic anti-bribery or anti-corruption laws, including those prohibiting the bribery of Government Officials, and will remain in compliance with all applicable laws; that it will not authorize, offer or make payments directly or indirectly to any Government Official; and that no part of the payments received (whether compensation or otherwise) from each other will be used for any purpose that could constitute a violation of any applicable laws.

4. GOVERNING LAW & JURISDICTION

This Agreement shall be governed by and constructed in accordance with the laws of India, without giving effect to its choice of laws rules shall be submitted to the exclusive jurisdiction of the courts of Vijayawada, Andhra Pradesh state.

IN WITNESS WHEREOF, the duly authorized representatives of the Party Vignan's Institute of Engineering for Women have caused this Agreement to be executed on the date first written above:

For& On behalf of Vignan's Institute of Engineering for Women, Visakhapatnam.	For & On behalf of Andhra Pradesh Information Technology Academy (APITA)
Name: Dr.J.Sudhakar Designation: Principal Place: Visakhapatnam Date: 05-03-2020	B. Mothilal Naik Name: B.Mothilal Naik Designation: Director Academic Affairs Place: Vijayawada Date:

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Witnesses 1:	Witnesses 2:
Name: Designation: Place: Date:	Name: K. Sudhakar Designation: Principal Place: Visakhapatnam Date:

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

10

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

APITA Andhra Pradesh Information Technology Academy

And

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)

FOR

PROVIDING TRAINING ON SOFT SKILLS, EMPLOYABILITY SKILLS, CAPACITY BUILDING PROGRAMMES ON LIFE SKILLS

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

ANDHRA PRADESH INFORMATION TECHNOLOGY ACADEMY

(GOVERNMENT OF ANDHRA PRADESH)

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

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Andhra Pradesh Information Technology Academy constituted by Government of Andhra Pradesh will hereafter be referred as APITA, which expression unless it be repugnant to the context or meaning thereof shall mean and include its successors and assigns as First Party to this MoU.

This letter of Academic Collaboration is entered on this 05th day June of 2019 by and between **Vignan's Institute of Engineering for Women, Visakhapatnam and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada.** Vignan's Institute of Engineering for Women and Sciences and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada, agree that cooperation in all academic collaborations and student and faculty exchanges would be mutually beneficial. The **Second Party** of this MoU.

A. **The First Party** – APITA is formed by the Government of Andhra Pradesh and was registered on 01-06-2016 at Vijayawada in place of Schedule-X Institution as per AP Reorganization Act 2014 "INSTITUTE FOR ELECTRONIC GOVERNANCE (IEG)/JKC established in the year 2004. Andhra Pradesh to train students under the name of "Amaravati Knowledge Center/JKC". The main objectives of APITA are to – support capacity building initiatives of ITE&C Dept; develop and offer courses in IT Electronics and Communications in collaboration with the industry; bridge the urban rural divide in producing readily employable graduates; offer consultancy support in capacity building programmes; provide conducive environment for learning through value addition programmes; promote a culture of research and development in IT, Electronics and Communications; facilitate e-governance programmes for state government employees; collaborate with industry, education and research institutions for the promotion and development of e-governance.

B. **The Second Party** –Vignan's Institute of Engineering for Women is one of the best women educational institutions in Visakhapatnam District, Andhra Pradesh (A.P). It is located in Kappujaggarajupeta, VSEZ (Post), Visakhapatnam to provide global and holistic education in a healthier environment in 6.9 acres of beautiful greenery campus. The campus is housed amidst industrial atmosphere conducive for vibrant Industry-Institute Interaction. Since its inception in 2008, the institution has been contributing its fullest in producing global technocrats, managers and professionals of excellence to equip the Indian industry with cutting edge expertise and awareness. The Institute is bestowed with qualified and experienced faculty and the state-of-the art Infrastructure. The institution offers various courses in Engineering stream like EEE, ECE, CSE and IT at the Graduate level and MBA and M.Tech at the Post Graduate level. VIEW provide a variety of stimulating environments for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills,insights,attitudes and practical experiences that are necessary to take up responsibilities in the society

B. Mathilal Naik

Scope of the MOU

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1. Workshops and training programmes on Soft Skills and Employability skills.
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1. PROMOTION, BRANDING & PUBLISHING

   It is agreed and understood that all press releases or other public communications of any sort relating to this Agreement or the transactions contemplated between the Party Vignan's Institute of Engineering for Women, including the method of release of the publication, other than the announcement herein, shall be subject to the mutual approval of Vignan's Institute of Engineering for Women & APITA.

2. TERMINATION

   Each Party has the right to terminate this AGREEMENT by giving 1 Months advance notice to the other Party or on a mutually agreeable basis.

The address for service of notice to the respective Part Vignan's Institute of Engineering for Women is as given below:

Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (Post)
Visakhapatnam (A.P) – 530049, India.

Andhra Pradesh Information Technology Academy (APITA)
3rd Floor, Room No: 317, R& B Building
M.G. Road, Labbipet,
Vijayawada Andhra Pradesh – 520 010

Either party may change its mailing address by written notice to the college in accordance with this paragraph. The party this college may also later decide upon sharing each other's email ID for such notices etc.

B. Mothilal Naik

3. COMPLIANCE & REGULATIONS

The part Vignan's Institute of Engineering for Women represent and warrant they currently comply with all applicable domestic anti-bribery or anti-corruption laws, including those prohibiting the bribery of Government Officials, and will remain in compliance with all applicable laws; that It will not authorize, offer or make payments directly or indirectly to any Government Official; and that no part of the payments received (whether compensation or otherwise) from each other will be used for any purpose that could constitute a violation of any applicable laws.

4. GOVERNING LAW & JURISDICTION

This Agreement shall be governed by and constructed in accordance with the laws of India, without giving effect to its choice of laws rules shall be submitted to the exclusive jurisdiction of the courts of Vijayawada, Andhra Pradesh state.

IN WITNESS WHEREOF, the duly authorized representatives of the Party Vignan's Institute of Engineering for Women have caused this Agreement to be executed on the date first written above:

For& On behalf of Vignan's Institute of Engineering for Women, Visakhapatnam.	**For & On behalf of** Andhra Pradesh Information **Technology Academy (APITA)**
Name: Dr.J.Sudhakar **Designation: Principal** **Place: Visakhapatnam** **Date:** 05-06-2019.	B. Mothilal Naik **Name: B.Mothilal Naik** **Designation:** Director Academic Affairs **Place: Vijayawada** **Date:**

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN * VISAKHAPATNAM-49 *

Witnesses 1: **Name:** **Designation:** **Place:** **Date:**	**Witnesses 2:** K. Sridhar **Name: K.Sridhar** **Designation: DDM** **Place: Visakhapatnam** **Date:**

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

APITA Andhra Pradesh Information Technology Academy

And

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

(Approved by AICTE, New Delhi::Affiliated to JNTUK, Kakinada)

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.), Visakhapatnam-530 049.

FOR

PROVIDING TRAINING ON SOFT SKILLS, EMPLOYABBILITY SKILLS, CAPACITY BUILDING PROGRAMMES ON LIFE SKILLS

ANDHRA PRADESH INFORMATION TECHNOLOGY ACADEMY

(GOVERNMENT OF ANDHRA PRADESH)

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

This Memorandum of Understanding (MoU)) must be mutually signed by both the parties

Andhra Pradesh Information Technology Academy constituted by Government of Andhra Pradesh will hereafter be referred as APITA, which expression unless it be repugnant to the context or meaning thereof shall mean and include its successors and assigns as First Party to this MoU.

This letter of Academic Collaboration is entered on this 07thday September of 2018 by and between **Vignan's Institute of Engineering for Women, Visakhapatnam and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada.** Vignan's Institute of Engineering for Women and Sciences and Andhra Pradesh Information Technology Academy, Govt. of A.P., Vijayawada, agree that cooperation in all academic collaborations and student and faculty exchanges would be mutually beneficial. **The Second Party** of this MoU.

A. **The First Party – APITA** is formed by the Government of Andhra Pradesh and was registered on 01-06-2016 at Vijayawada in place of Schedule-X Institution as per AP Reorganization Act 2014 "INSTITUTE FOR ELECTRONIC GOVERNANCE (IEG)/IKC established in the year 2004. Andhra Pradesh to train students under the name of "Amaravati Knowledge Center/JKC". The main objectives of APITA are to – support capacity building initiatives of ITE&C Dept; develop and offer courses in IT Electronics and Communications in collaboration with the industry; bridge the urban rural divide in producing readily employable graduates; offer consultancy support in capacity building programmes; provide conducive environment for learning through value addition programmes; promote a culture of research and development in IT, Electronics and Communications; facilitate e-governance programmes for state government employees; collaborate with industry, education and research institutions for the promotion and development of e-governance.

B. **The Second Party** –Vignan's Institute of Engineering for Women is one of the best women educational institutions in Visakhapatnam District, Andhra Pradesh (A.P). It is located in Kappujaggarajupeta, VSEZ (Post), Visakhapatnam to provide global and holistic education in a healthier environment in 6.9 acres of beautiful greenery campus. The campus is housed amidst industrial atmosphere conducive for vibrant Industry-Institute Interaction. Since its inception in 2008, the institution has been contributing its fullest in producing global technocrats, managers and professionals of excellence to equip the Indian industry with cutting edge expertise and awareness. The Institute is bestowed with qualified and experienced faculty and the state-of-the art Infrastructure. The institution offers various courses in Engineering stream like EEE, ECE, CSE and IT at the Graduate level and MBA and M.Tech at the Post Graduate level. VIEW provide a variety of stimulating environments for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills,insights,attitudes and practical experiences that are necessary to take up responsibilities in the society.

Scope of the MOU

The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

1. Workshops and training programmes on Soft Skills and Employability skills.
2. Organizing capacity building programmes on Life skills.
3. Supporting the institution in placement drives and related trainings.
4. Campus training programmes for Faculty Development on Teaching Learning Technologies.

TERMS OF THE AGREEMENT

The AGREEMENT shall be effective from the date of execution and shall remain in force for a period of 1 year only.

1. PROMOTION, BRANDING & PUBLISHING

It is agreed and understood that all press releases or other public communications of any sort relating to this Agreement or the transactions contemplated between the Party Vignan's Institute of Engineering for Women, including the method of release of the publication, other than the announcement herein, shall be subject to the mutual approval of Vignan's Institute of Engineering for Women & APITA.

2. TERMINATION

Each Party has the right to terminate this AGREEMENT by giving 1 Months advance notice to the other Party or on a mutually agreeable basis.

The address for service of notice to the respective Part Vignan's Institute of Engineering for Women is as given below:

Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (Post)
Visakhapatnam (A.P) – 530049, India.

Andhra Pradesh Information Technology Academy (APITA)
3rd Floor, Room No: 317, R& B Building
M.G. Road, Labbipet,
Vijayawada Andhra Pradesh – 520 010

Either party may change its mailing address by written notice to the college in accordance with this paragraph. The party this college may also later decide upon sharing each other's email ID for such notices etc.

3. COMPLIANCE & REGULATIONS

The part Vignan's Institute of Engineering for Women represent and warrant they currently comply with all applicable domestic anti-bribery or anti-corruption laws, including those prohibiting the bribery of Government Officials, and will remain in compliance with all applicable laws; that It will not authorize, offer or make payments directly or indirectly to any Government Official; and that no part of the payments received (whether compensation or otherwise) from each other will be used for any purpose that could constitute a violation of any applicable laws.

4. GOVERNING LAW & JURISDICTION

This Agreement shall be governed by and constructed in accordance with the laws of India, without giving effect to its choice of laws rules shall be submitted to the exclusive jurisdiction of the courts of Vijayawada, Andhra Pradesh state.

IN WITNESS WHEREOF, the duly authorized representatives of the Party Vignan's Institute of Engineering for Women have caused this Agreement to be executed on the date first written above:

For& On behalf of Vignan's Institute of Engineering for Women, Visakhapatnam.	**For & On behalf of Andhra Pradesh Information Technology Academy (APITA)**
Name: Dr.J.Sudhakar **Designation: Principal** **Place: Visakhapatnam** **Date:**	**Name: K.Sridhar** **Designation: DDM** **Place: Visakhapatnam** **Date:**

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Witnesses 1: Name: Designation: Place: Date:	**Witnesses 2:** Name: Designation: Place: Date:

CHIEF MINISTER'S
SKILL EXCELLENCE CENTER

MEMORANDUM OF AGREEMENT (MoA)

BETWEEN

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

AND

Vignans Institute Of Engineering For Women,
Kapujaggaraju Peta

Skill Development, Entrepreneurship & Innovation Department
(SDE&I. Dept.), Government of Andhra Pradesh.

R. Surya

R SURYANARAYANA
S.V.L.NO. 1/1992, R.L.NO..
D.NO. 8-1-140(1) GAJUWAK,
VIZAG - 26
LICENSE NO 32/2006

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AGREEMENT BETWEEN

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

AND

VIGNANS INSTITUTE OF ENGINEERING FOR WOMEN

VADLAPUDI

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

EXECUTIVE DIRECTOR

The Agreement is executed on this 29 day of July 2019 (Effective Date) by and between,

Andhra Pradesh State Skill Development Corporation, having its Corporate Office at D.No.78/2, G&J Infra Infosight Building, Near Pathuru Junction, Tadepalli - 522501 herein referred to as "APSSDC" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by its Authorized Signatory of the first part;

And

VIGNANS INSTITUTE OF ENGINEERING FOR WOMEN having its corporate office at **Vadlapudi, Backside Of Vsez Kapujaggaraju Peta, Visakhapatnam, Andhra Pradesh 530046** herein after called **VIGNANVIEW, Visakhapatnam** (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the **CHAIRMAN** of the second part;

APSSDC and College shall herein after be collectively referred to as Parties and individually as first/second Party.

WHEREAS:

APSSDC is a unique organization formed as a public private partnership (PPP) corporation to promote skill-development & entrepreneurship in the state of Andhra Pradesh. APSSDC is the Executive Agency for the Department of Skill Development, Entrepreneurship and Innovation, Govt. of Andhra Pradesh (GoAP) serving the important task of providing high quality skilled manpower as part of the Knowledge and Skills Mission of GoAP. The main objective of the Corporation is to implement a structured and pragmatic solution to skill & upskill the workforce in the State of Andhra Pradesh and to increase employability and promote entrepreneurship in sync with Industrial growth of the State. The process of developing large pool of skilled manpower has been envisaged in partnership with industry to make the skill development mission more industry relevant and self-sustainable. In the process of achieving these goals, the GoAP has

PRINCIPAL
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K.J.Peta, VSEZ (P.O.),

EXECUTIVE DIRECTOR

ACADEMIC DIRECTOR
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)

incorporated APSSDC as a special corporate which shall strive for the appropriate and demand driven Skill Development.

APSSDC in its several meetings have discussed and decided to achieve the goal of skill development with participative approach of the stakeholders' viz. the Government, Industry, academic institutions, youth and all other stakeholders. This participative approach will go a long way in accomplishing the task in economical, appropriate proportions with relevance in the shortest period. The APSSDC would provide the extra infrastructural requirements at the selected academic institutions in order to extend the skilling activities and thus realizing the objectives of APSSDC. In this process, the APSSDC has selected some of the leading Engineering Colleges/Govt. Polytechnics/Industry associated training institutions for providing the additional infrastructural facilities required for running the Skill Development programs.

APSSDC and the College/ Institution which is selected for **CM's Skill Excellence Center (SEC)** - ICT Lab have mutually discussed and agreed to enter into this agreement as detailed hereinafter.

NOW, THEREFORE, in consideration of the mutual promises contained herein and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties agree as follows:

2.1 DEFINITIONS:

In this Agreement, the following expressions shall have the meaning stated herein:

"**Agreement**" shall mean this agreement executed between APSSDC and College and shall include any written modifications thereof and the schedules attached hereto.

"**Applicable Law**" shall mean all the laws national and international, enacted or brought into force as the case may be and enforced by the GoI or GoAP as the case may be, and the regulations and notifications made there under and judgments, decrees, injunctions, writs and orders of any court of record, as may be in force and effect.

"**CM's Skill Excellence Centre - ICT Lab**" shall mean multi-skill focused Centres of Excellence (CoE) at reputed Engineering Colleges in CSE, IT, ECE, EEE, Mechanical and Civil streams. These **CM's Skill Excellence Centers - ICT Labs** will be selected,

EXECUTIVE DIRECTOR

PRINCIPAL
Vignan's Institute of
Engineering for Women
Kapujaggarapeta, VSEZ (P.O.),
Visakhapatnam-49.

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women
Kapujaggarapeta, VSEZ (P.O.)

established and implemented by APSSDC in active collaboration and assistance from the host College, as per the terms of this Agreement.

"GoAP" means the Government of Andhra Pradesh and its concerned department, Skill Development Entrepreneurship & Innovation.

"Equipment" means/includes Laptops, Projector, Wi-Fi routers, Audio system

3. **SCOPE OF SERVICES / PROJECT**

   a. To make qualitative improvements in imparting Technical Skills by setting up or providing:

      - Infrastructure in college laboratories by adopting latest technologies in engineering streams of CSE, IT, ECE, EEE, Mechanical and Civil to serve the needs of the industry;
      - Skill up-gradation of faculty by imparting training;
      - **CM's Skill Excellence Centre - ICT Labs** to focus on training students in line with the latest Industry needs and make them more employable

   b. **Promote Industry** – Academia interfacing to make improvements in Technical Skills sustainable and in line with Industry requirements.

   c. **Train students to improve employability** - Improved placements of students in colleges and enable the students to compete and succeed in national employment market with better remuneration and professional growth.

   d. Create a pool of skilled manpower to cater to the current and future industrial and service sector needs.

   e. Follow Guidelines and procedures prescribed / as may be prescribed from time to time by APSSDC for implementation.

4. **SCOPE OF THE FIRST PARTY**

   The APSSDC shall

   - Select reputed academic/Industrial Training Institutions through a stipulated procedure;
   - Provide a platform for registration of trainees online and mapping of institutions and students;

EXECUTIVE DIRECTOR

PRINCIPAL
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ACADEMIC DIRECTOR
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)

- Provide equipment with latest technology to fill up the gap required to suit the skill development training requirements –laptops (as per the configuration given in Annexure I);
- Prepare over all calendar programs and communicate to Second Party;
- Train the faculty in the requisite and relevant skill;
- Exercise its right to cancel the permission now granted to the institutions in the event of not fulfilling their obligations.

5. SCOPE OF THE SECOND PARTY

The College shall:

- Provide a minimum of 750 sq.ft area for setting up the lab;
- Make available the necessary infrastructure as per the project specifications including electrical fittings, electricity and Power backup, water, furniture and fixtures and Air-conditioning;
- Provide adequate security: The College is responsible and accountable for the safety of the lab equipment;
- Ensure internet connectivity of 150Mbps bandwidth;
- Mobilize faculty and students of the college/institution for trainings and Certification;
- Make necessary efforts and ensure maximum participation of students belonging to Scheduled Caste (SC) and Scheduled Tribe (ST) Categories
- Appoint a Centre Coordinator as Single point of contact person (SPOC) for handling all administrative and programme related activities for smooth functioning of the Centre;
- Ensure to mark the daily attendance of candidates in the suggested mode (manual or bio metric or iris scan);
- Make a commitment on the count of faculty and students for APSSDC Training programs as mentioned - **50% of annual intake / students on rolls** – for participation in APSSDC programs like Workshops, online programs, Certification programs, any other programs announced by APSSDC from time to time out of which 50% students are to get certified from the Globally recognized MOOCs;

EXECUTIVE DIRECTOR A.P.S.S.D.C

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

ACADEMIC DIRECTOR
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

- Allow at least 50% of intake capacity to students of other colleges with residential facilities **(100 boys & 50 girls at nominal cost)** i.e., food & accommodation.
- *Provide Food and accommodation for 5 mentors (boy / girl) deputed by APSSDC to the college to co-ordinate and execute the APSSDC programs without any charges;*
- Setup one Skill Development Center lab and equip it on the lines of CM's SEC for APSSDC training exclusively;
- Have to bear the maintenance cost of equipment at the college after the warranty lapses

Compliances:

- ***KPIs*** *– Key Performance Indicators (KPIs) will be developed in mutual consultation with colleges and APSSDC.*
- ***Monitoring****: The activities of CM's Skill Excellence Centers - ICT Labs shall be regularly monitored through an IT monitoring system at APSSDC on a real time basis and also through the monitoring committee of APSSDC.*
- ***Management Information System:*** *All reports and documents relating to progress of the students on rolls, Accounts, Audit and Annual Work Plan, as specified at such frequency as may be required by 'THE FIRST PARTY' are to be submitted through MIS.*
- *Details of Data of Number of students passed out, placed (Trained for Employability), and unplaced on year-on-year basis.*
- *Institutions will face punitive action amounting to withdrawal of allotment of Centre given under this Project if it is found that the college:*
  - *Is Charging capitation fee or indulging in any other malpractice*
  - *Provided false data in their reports*
  - *Is Unable to achieve targets set by APSSDC/themselves in Proposals consistently*
  - *Violated any of the terms and conditions of this Agreement*

EXECUTIVE DIRECTOR

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

6. REVENUE GENERATED

The Revenue generated from the programs being implemented by APSSDC will be the sole income of APSSDC as per the Course wise fee structure provided at Annexure -II which may be periodically updated as and when required.

7. BREACH OF AGREEMENT& REMEDIAL PERIOD

APSSDC shall have the right to terminate this Agreement without assigning any reasons by giving prior written notice of 60 (Sixty) days through its authorized signatory. Without prejudice to the above, either Party may terminate this Agreement by giving 30 (Thirty) days' written notice through its authorized signatory in the event of any material breach of any of the material terms of this Agreement by the other Party. The non-defaulting party shall first serve a written notice of its intention to terminate this Agreement to the defaulting party highlighting the material breach and giving the defaulting party a period of 30 days or such extended period as may be mutually agreed to within which to remedy the material breach. If such event of a material breach remain unresolved/unrectified within the said notice period of 30 days or such extended period as may be mutually agreed to, the non-defaulting shall be able to terminate the Agreement forthwith.

8. CONFIDENTIAL INFORMATION

Each Party may disclose Confidential Information:

a) to the extent to which it is required to be disclosed pursuant to Applicable Law;
b) to the extent to which it is specifically permitted by the other Party in writing;
c) to the extent that the Confidential Information is publicly available and
d) to its employees and professional advisors, but only to the extent necessary and subject to such employees and professional advisors accepting an equivalent confidentiality obligation to that set out in this Clause Confidentiality.

9. LIMITATION OF LIABILITY

Except as agreed and provided under this Agreement, neither of the Parties shall be liable to bear or pay any damages arising out of loss of income, loss of profit, special, incidental, indirect, punitive, exemplary or consequential, to any party including third parties, and all such damages are expressively disclaimed.

EXECUTIVE DIRECTOR
A.P.S.S.D.C.

Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

10. DISPUTE RESOLUTION

The Parties shall endeavor to resolve all or any dispute or difference arising out of or in connection with this Agreement, amicably within 30 days of notice in writing being issued by the non-defaulting party to the defaulting party indicating such dispute or difference. In case no amicable solution is arrived between the Parties within the said 30 days, then such dispute/s shall be settled through Arbitration as per the provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time. The arbitration shall be done by Sole Arbitrator appointed by APSSDC. The written award of the Arbitrator shall be final and binding on all the Parties. The seat and venue for the arbitration proceedings shall be at Vijayawada, Andhra Pradesh.

11. FORCE MAJEURE

If the performance of any part of this Agreement by parties is prevented or delayed by acts of civil or military authority, flood, fire, epidemic, war or riot, or other acts beyond the reasonable control of either party, the party affected shall be excused from such performance only during the continuance of any such event.

Where a Party is claiming suspension of its obligations on account of Force Majeure, it shall promptly, but in no case later than five (5) days after the occurrence of the event of Force Majeure, notify the other Party in writing giving full particulars of the Force Majeure, the estimated duration thereof, the obligations affected and the reasons for its suspension.

The Party asserting the claim of Force Majeure shall have the burden of proving that the circumstances constitute valid grounds of Force Majeure under this clause and that such Party has exercised reasonable diligence and efforts to remedy the cause of any alleged Force Majeure. If the parties are unable in good faith agree that a Force Majeure event has occurred, the Parties shall submit the dispute for resolution pursuant to clause 10 hereof provided that the burden of proof as to whether a Force Majeure event has occurred shall be upon the Party claiming a Force Majeure event.

12. SEVERABILITY

If any provision or provisions of this Agreement shall be held to be illegal, invalid or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired there by and the parties hereto agree to

PRINCIPAL

ACADEMIC DIRECTOR

Vignan's Institute of Engineering for Women

replace the illegal or unenforceable provisions with valid provisions which are as close as possible to the illegal or unenforceable provisions in their respective meaning, purpose, and commercial effect within reasonable time.

13. NOTICE

13.1. Any notice or other document to be given under this Agreement shall be in writing and shall be deemed to have been duly given if left at or sent by:

(a) hand; or

(b) registered posts; or

(c) facsimile or other electronic media;

to the other party at the following addresses and/or telecommunication number or such other addresses as the party may from time to time designate by written notice to the other(s):

APSSDC	**Andhra Pradesh State Skill Development Corporation** **Door No. 78/2, G&J Infra Infosight Building,** **Near Pathuru Junction, Tadepalli - 522501**
College/ Institution	**VIGNANS INSTITUTE OF ENGINEERING FOR WOMEN** **Vadlapudi, Backside Of Vsez Kapujaggaraju Peta, Visakhapatnam, Andhra Pradesh 530046**

13.2. All such notices and documents shall be in the English language. All notices or other documents shall be deemed to have been received by the addressee in the case of dispatch by post, five (5) working days following the date of dispatch of the notice or document and in the case of dispatch by hand or by facsimile or other electronic media, simultaneously with the delivery or transmission (as the case may be). To prove the giving of a notice or other document it shall be sufficient to show that it was dispatched in accordance with the provisions of Clause 13.1 hereof.

14. PERIOD OF VALIDITY

This Agreement is effective from 1-11-18 and shall be in force for a period of three years, unless terminated by mutual consent of the parties.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.L.P.Peta, VSEZ (P.O.)

ACADEMIC DIRECTOR
Vignan's Institute of Engineering for Women

15. GOVERNING LAW AND JURISDICTION

This Agreement shall be governed and construed in accordance with the laws of India and subject to the arbitration clause mentioned above, the courts of Andhra Pradesh shall have the jurisdiction to entertain any dispute or suit arising out of or in relation to this Agreement.

16. PUBLICITY

Neither party shall make any public disclosure, except as may be required by applicable law, relating to discussions and or terms related to this Agreement, without obtaining the prior written consent of the other party. Either party shall not use and shall not let their employees, agents and subcontractors from using the name, trademark or logo of other party in any sale, marketing publication, advertisement, or other publication. Either party shall not make, or let its employees, agents or subcontractors make, any public statement relating to the other party.

17. RELATION OF THE PARTIES

Nothing herein shall be construed to neither constitute a partnership between the parties hereto nor to authorize the College save and except as provided herein or with the APSSDC's prior consent in writing, for making any representation.

18. MODIFICATION, AMENDMENT, SUPPLEMENT OR WAIVER

No modification, amendment, supplement to or waiver of this Agreement or any of its provisions shall be binding upon the parties hereto unless made in writing and duly signed by the authorized representative of the party against whom enforcement thereof is sought. Any failure or delay of any party to this Agreement to enforce at any time any of the provisions of this Agreement or to exercise any option which is herein provided, or to require at any time performance of any of the provisions hereof, shall in no way be construed to be a waiver of such provisions of this Agreement.

19. ENTIRE AGREEMENT

This Agreement together with all Appendices, Attachments and Addenda attached hereto constitute the entire agreement between the parties and supersedes all previous agreements, promises, representations, understandings and negotiations, whether written or oral, between the parties with respect to the subject matter hereof.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),

EXECUTIVE DIRECTOR

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women

20.ASSIGNMENT

The Second Party shall not be entitled to, nor shall it purport to, assign this Agreement, without prior consent of the First Party.

This Agreement is prepared in two originals and each party shall retain one copy. Each copy shall be treated as original when taken separately and shall constitute as one when taken together.

In token of agreement and acceptance hereof by the two parties the authorized representatives of the two parties hereto have affixed their signatures herein below in the presence of witnesses as under:

SIGNED ON BEHALF OF

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

Signature: _____

EXECUTIVE DIRECTOR A.P.S.S.D.C

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

(Name: **Dr. B Nageswara Rao**) Designation: **Executive Director**

VIGNANS INSTITUTE OF ENGINEERING FOR WOMEN ,

Vadlapudi, Backside Of Vsez Kapujaggaraju Peta, Visakhapatnam, Andhra Pradesh 530046

Signature: _____

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

Name: Prof. A. SESHA RAO Designation: **CHAIRMAN**

Witness

Name: DR. SUDHAKAR JYOTHULA Name : Dr. K. VIJAYA KUMAR

Signature: _____ Signature: _____

Designation: PRINCIPAL Designation: Assoc. Prof & Head Dept of CSE

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

ANNEXURE-I

Laptops	**: 37 No.**
Make and Model	**: Acer TMP 249-G2-M**
Technical Specifications	
Processor	Intel Core i5-7200U Processor @ 2.5 GHz(Turbo Boost Upto 3.1 Ghz), 3MB Cache, 2-cores
Memory	16 GB DDR4 Memory, 2133 MHz
Internal Storage	500 GB SATA
Wireless Connectivity	Integrated wireless & Integrated Blue tooth.
Display Size	14"
Display Resolution	1366 x768
Webcam	Built-in Webcam.
Battery	5 Hrs Backup
VGA Port	Yes
HDMI Port	Yes
USB 2.0 port	1
USB 3.0 port	2
Operating System	BOSS Linux
Keyboard	External;
Mouse	External;

ACADEMIC DIRECTOR
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

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Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49

Annexure – II

Details of course wise fee

S No	Programs Offered for ECE, EEE & EIE	Duration	Fee
1	Embedded systems Fundamentals (Embedded C ,8051)	6 Days	150
2	Embedded Systems Advanced (ARM)	3 Days	300
3	Internet of Things (IoT)	1 Week	300
4	PCB (Software)	3 Days	100
5	PCB (Hardware)	3 Days	100
6	Arduino With Scratch	3 Days	100
7	Mathematical Operations With scilab for Engineering Applications	3 Days	100
8	SciLab	3 Days	100
9	PLC	6 Days	300
10	SCADA	6 Days	300

S No	Programs Offered for Mechanical Engineering students	Duration	Fee
1	AUTOCAD	6 days	250
2	CATIA Phase -I (Modelling)	6 days	250
3	CATIA Phase - II (Surfacing)	6 days	250
4	Solid Edge	6 days	250

S No	Programs Offered for Civil Engineering students	Duration	Fee
1	AutoCAD	6 days	250
2	Revit Architecture	6 days	250
3	Revit Structure	6 days	250
4	ETABS	6 days	250

S No	Programs Offered in Gaming : (Computer Engg/ECE students	Duration	Fee
1	Game Development using Buildbox	3 days	100
2	Fundamentals in Game Development using Unity3D & C#	6 days	250

S No	Programs Offered in Amazon Web Services(AWS) for Computer ENGG/ECE students	Duration	Fee
1	Cloud Literacy	1 Day	Free
2	Cloud Computing_101	2 Days	Free
3	ALEXA SKILLS	5 days	100
4	Associate Cloud Architect	5 days	100

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S No	Programs Offered in Python for all Engg. Students	Duration	Fee
1	Python Basics	3 Days	150
2	Advanced Python	3 Days	150
3	Applied Data Science foundations	3 Days	150
4	Web Development with Python	6 Days	300

S No	Programs Offered in Problem Solving & Programming	Duration	Fee
1	Raptor	3 Days	100
2	Data Structures and Algorithms	6 Days	250
3	Problem Solving Skills Using C	6 Days	250
4	Programming Content & Challenges(Coding Training)	6 Days	250

S No	Programs Offered in Coursera Certifications:	Duration	Fee
1	1. An Introduction to Programming the Internet of Things (IOT) Specialization- Coursera	18 Days	2800
2	2.Development of Secure Embedded Systems Specialization - Coursera	12 Days	
3	Python for Everybody	14 Days	2800
4	Applied Data Science with Python	1 Month	
5	Introduction to C# Programming and Unity , More C# Programming and Unity	12 days	2800

ACADEMIC DIRECTOR
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भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

ఆంధ్రప్రదేశ్ आन्ध्र प्रदेश ANDHRA PRADESH

CB 413867

.No. 13028 Date: 31-03-2018 Rs. 100/-

ld to : A. Sesha Rao S/o Suramma V.S.P

r Whom: Vignans Institute of Engineering for women V.S.P

Ravi Somasekhar Raju
Licensed Stamp Vendor
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D.No.8-53, Narava Village,
Pendurthy (M), Visakhapatnam.
Phone: 99637 91579

AGREEMENT BETWEEN
ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION, VIJAYAWADA
and

Vignans Institute Of Engineering For Women, Visakhapatnam, Kapujaggaraju peta, Vadlapudi post Backside of VSEZ, Visakhapatnam, Andhra Pradesh 530046
https://goo.gl/maps/DHcg82WRRK12

The Agreement is executed on this 29th day of March 2018 by and between, Andhra Pradesh State Skill Development Corporation having its office at 2nd Floor, NTR Administrative Block, PN Bus Station, Vijayawada - 520 013 hereinafter called the "APSSDC" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the MD&CEO of the first part;

and

Vignans Institute Of Engineering For Womenhaving its office at Kapujaggaraju peta, Vadlapudi post Backside of VSEZ, Visakhapatnam, Andhra Pradesh 530046 https://goo.gl/maps/DHcg82WRRK12, Visakhapatnam herein after called "VIEW" (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns) represented by the *PRINCIPAL* of the second part;

Principal
VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
K.J. Peta, VSEZ (P.O.)

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

APSSDC and Vignans Institute Of Engineering For Womenshall herein after be collectively referred to as Parties and individually as first/second Party.

WHEREAS:

The new state of Andhra Pradesh has come into existence after bifurcation of the erstwhile combined state of Andhra Pradesh in June-2014. In the process of fulfilling its commitment for formation of a modern State, the State has initiated its endeavors, primarily on infrastructure building and rapid industrialization. To support this initiative, Government of Andhra Pradesh (GoAP) has identified manufacturing as a key area and is establishing clusters to nurture growth in vital sectors like Auto and Electronics by setting-up industrial corridors, Special Economic Zones (SEZs) etc,. The immediate necessity for Industrialization is the manpower development. In the process of industrialization and infrastructure building, it is obligatory on the part of GoAP to simultaneously develop a large pool of skilled manpower to cater to the needs of the industry and service sectors. In this endeavor, the State has earnestly decided to address the skill shortage which is much projected by the user Industry. The initiative of Statewide high priority for skill development shall also ensure up-gradation of skills. The sectors with largest manpower requirement in the coming years will be Manufacturing, Construction, Hospitality, Banking, Financial Services and Insurance and Information Technology/IT enabled services.

Eventually, the Skill Development has occupied the key focus area of GoAP. The process of developing large pool of skilled manpower has been envisaged in partnership with industry to make the skill development mission more industry relevant and self-sustainable. In the process of achieving these goals, the GoAP has incorporated APSSDC as a special corporate which shall strive for the appropriate and demand driven Skill Development.

APSSDC in its several meetings has discussed and decided to achieve the goal of skill development with participative approach of the stakeholders' viz. the Government, Industry, academic institutions, youth and all other stakeholders. This participative approach will go a long way in accomplishing the task in economical, appropriate proportions with relevance in the shortest period. The APSSDC would provide the extra infrastructural requirements in selected academic institutions. In this process, the APSSDC has selected some of the leading Engineering Colleges/Govt. Polytechnics/Industry associated training institutions for providing the infrastructural facilities additionally required for running the Skill Development programs.

The APSSDC and Vignans Institute Of Engineering For Womenwhich is selected for CM's Skill Excellence Center (SEC): ICT Lab have mutually discussed and agreed to enter into this agreement as detailed hereinafter.

NOW, THEREFORE, in consideration of the mutual promises contained herein and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties agree as follows:

2.1 DEFINITIONS:

In this Agreement, the following expressions shall have the meaning stated herein:

"Agreement" shall mean this agreement executed between APSSDC and Vignans Institute Of Engineering For Womenand shall include any written modifications thereof and the schedules attached hereto.

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Visakhapatnam-49.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)

"Applicable Law" shall mean all the laws national and international, enacted or brought into force as the case may be and enforced by the GoI or GoAP as the case may be, and the regulations and notifications made there under and judgments, decrees, injunctions, writs and orders of any court of record, as may be in force and effect.

"CM's Skill Excellence Center: ICT Lab" shall mean multi-skill focused Skill Excellence Centre at reputed Engineering Colleges in CSE, IT, ECE, EEE, Mechanical and Civil streams. These CM's Skill Excellence Centers: ICT Labs will be selected, established and implemented by APSSDC in active collaboration and assistance from the host College, as per the terms of this Agreement.

"Effective Date" shall mean the date of signing of this Agreement.

"GoAP" means the Government of Andhra Pradesh and its concerned department, SD&EI.

"Equipments" means/includes Laptops, Projector, Wi-Fi routers, Audio system

"CM's Skill Excellence Center: ICT Labs" shall mean college-level skill development centres connected with APSSDC over internet, where local students can access and learn out of the interactive digital courseware, online programs hands-on training, offline Workshops and global certification programs.

3. SCOPE OF SERVICES / PROJECT

a. To make qualitative improvements in imparting Technical Skills by setting up or providing:

- Infrastructure in college laboratories by adopting latest technologies in engineering streams of CSE, IT, ECE, EEE, Mechanical and Civil to serve the needs the industry;
- Skill up-gradation of faculty by imparting training;
- Update course curriculum to suit modern industrial practices;
- Promote Research & Development and Innovation for existing Industries.
- CM's Skill Excellence Center: ICT Labs to focus on training students in line with the latest Industry needs and make them more employable

b. Promote Industry – Academia interfacing to make improvements in Technical Skills sustainable and in line with Industry requirements.

c. Train students to improve employability - Improved placements of students in colleges and enable the students to compete in national employment market with better remuneration and professional growth.

d. Enhance the reputation of Technical Institutions with improved academic ambience and State of Art facilities

e. Create a pool of skilled manpower to cater to the current and future industrial and service sector needs.

f. Guidelines and procedures prescribed / as may be prescribed from time to time by APSSDC for implementation.

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4. SCOPE OF THE FIRST PARTY

The APSSDC shall

- Select reputed academic/Industrial Training Institutions through a stipulated procedure.
- Provide a platform for registration of trainees online and mapping of institutions and students
- Provide equipment with latest technology to fill up the gap required to suit the skill development training requirements -laptops (as per the configuration given in Annexure I).
- Train the faculty in the required skill.
- Identify and provide course curriculum to suit latest and future technologies.
- Promote Research & Development and Innovation for existing Industries.
- To get the evaluation of the Skill Development programs done by third party for assessing the impact with respect to quality and quantitative placements.
- *Exercise its right to cancel the permission now granted to the institutions in the event of not fulfilling their obligations.*

5. SCOPE OF THE SECOND PARTY

The Academic institution shall provide and follow the guidelines presented:

SDC:

College should setup one Skill Development Center lab and equip it on the lines of CM's SEC for APSSDC training exclusively.

CM's SEC:

Capacity to provide E-Classroom space to accommodate 37 systems lab with LCD Projector, Audio System & to ensure internet connectivity of 150Mbps bandwidth.

Infrastructure:

The necessary infrastructure as per the project specifications including electrical fittings, electricity and Power backup, water, furniture and fixtures and Air-conditioning

Adequate security:

The College should be responsible and held accountable for safety of the lab equipment.

Faculty & Students:

- To mobilize faculty and students of the college/institution for trainings and Certification
- College should make a commitment on the count of faculty and students for APSSDC Training programs as mentioned - 50% of annual intake / students on rolls – for participation in APSSDC programs like Workshops, online programs, Certification programs, any other programs announced by APSSDC from time to time out of which 50% students are to get certified from the Globally recognized MOOCs

Residential Facilities:

- At least 50% of intake capacity to students of other colleges with residential facilities (50 boys & 50 girls at nominal cost) i.e., food & accommodation.

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- Food and accommodation for 5 mentors (boy / girl) deputed by APSSDC to the college to coordinate and execute the APSSDC programs without any charges.

Clubs:

- Department wise clubs are to be initiated and competitions are to organized as and when informed at the earliest in coordination with APSSDC Stream coordinators.
- Colleges are requested to arrange a cabin/room exclusively for APSSDC Mentors & Club members.

Warranty & Equipment:

- Post-warranty of equipment, college has to bear the maintenance cost.

Compliances:

- KPIs – Key Performance Indicators (KPIs) will be developed in mutual consultation with colleges and APSSDC.
- **Monitoring:** The activities of CM's Skill Excellence Centers: ICT Labs shall be regularly monitored through an IT monitoring system at APSSDC on a real time basis and also through the monitoring committee of APSSDC.
- Management Information System: To submit all reports and documents relating to progress of the students on rolls, Accounts, Audit and Annual Work Plan, as specified at such frequency as may be required by 'THE FIRST PARTY'.
- Details of Data of Number of students passed out, placed (Trained for Employability), and unplaced on year-on-year basis.
- Institutions will face punitive action amounting to withdrawal of the laptops given under this Project if found to be:

❖ Charging capitation fee or indulging in any other malpractice

❖ Provided false data in their reports

❖ Unable to achieve targets set by APSSDC/themselves in Proposals consistently

❖ Any non-compliance with the terms and conditions of this Agreement

6. REVENUE GENERATED

➢ APSSDC is heavily subsidizing the training and certification courses as compared to market prices. The Revenue generated from the charges of the programs being implemented by APSSDC will be the sole income of APSSDC as per the Course wise fee structure provided at Annexure 2.

7. BREACH OF AGREEMENT & REMEDIAL PERIOD

In case the Vignans Institute Of Engineering For Women, commits breach of any condition as laid down in this Agreement, the monitoring committee at APSSDC shall bring the same to the notice of Vignans Institute Of Engineering For Women. In case the breach is not rectified within 30 days from the date of notice, as per the terms and spirit of this Agreement, APSSDC/ GoAP is authorized to take over the CM's Skill Excellence Centers: ICT Labs (all the assets provided by APSSDC under this program) except other liabilities of promoters and their employees.

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Visakhapatnam-49

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K.J. Peta, VSEZ (P.O.)

8. CONFIDENTIAL INFORMATION

Each Party may disclose Confidential Information:

a) to the extent to which it is required to be disclosed pursuant to Applicable Law;

b) to the extent to which it is specifically permitted by the other Party in writing;

c) to the extent that the Confidential Information is publicly available and

d) to its employees and professional advisors, but only to the extent necessary and subject to such employees and professional advisors accepting an equivalent confidentiality obligation to that set out in this Clause Confidentiality.

9. LIMITATION OF LIABILITY

Except as agreed and provided under this Agreement, neither of the Parties shall be liable to bear or pay any damages arising out of loss of income, loss of profit, special, incidental, indirect, punitive, exemplary or consequential, to any party including third parties, and all such damages are expressively disclaimed.

10. DISPUTE RESOLUTION

The Parties shall endeavor to resolve all or any dispute or difference arising out of or in connection with this Agreement, amicably within 30 days of notice in writing being issued by the non-defaulting party to the defaulting party indicating such dispute or difference. In case no amicable solution is arrived between the Parties within the said 30 days, then such dispute/s shall be settled through Arbitration as per the provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time. The arbitration shall be done by Sole Arbitrator appointed by APSSDC. The written award of the Arbitrator shall be final and binding on all the Parties. The seat and venue for the arbitration proceedings shall be at Vijayawada, Andhra Pradesh.

11. FORCE MAJEURE

If the performance of any part of this Agreement by parties is prevented or delayed by acts of civil or military authority, flood, fire, epidemic, war or riot, or other acts beyond the reasonable control of either party, the party affected shall be excused from such performance only during the continuance of any such event.

Where a Party is claiming suspension of its obligations on account of Force Majeure, it shall promptly, but in no case later than five (5) days after the occurrence of the event of Force Majeure, notify the other Party in writing giving full particulars of the Force Majeure, the estimated duration thereof, the obligations affected and the reasons for its suspension.

The Party asserting the claim of Force Majeure shall have the burden of proving that the circumstances constitute valid grounds of Force Majeure under this clause and that such Party has exercised reasonable diligence and efforts to remedy the cause of any alleged Force Majeure. If the parties are unable in good faith agree that a Force Majeure event has occurred, the Parties shall submit the dispute for resolution pursuant to clause 10 hereof provided that the burden of proof

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Principal
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K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49.

is to whether a Force Majeure event has occurred shall be upon the Party claiming a Force Majeure event.

12. SEVERABILITY

If any provision or provisions of this Agreement shall be held to be illegal, invalid or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired there by and the parties hereto agree to replace the illegal or unenforceable provisions with valid provisions which are as close as possible to the illegal or unenforceable provisions in their respective meaning, purpose, and commercial effect within reasonable time.

13. NOTICE

13.1. Any notice or other document to be given under this Agreement shall be in writing and shall be deemed to have been duly given if left at or sent by: -

(a) hand; or

(b) registered posts; or

(c) facsimile or other electronic media;

to the other party at the following addresses and/or telecommunication number or such other addresses as the party may from time to time designate by written notice to the other(s):

APSSDC	Andhra Pradesh State Skill Development Corporation 2nd Floor, NTR Administrative Block, PN Bus Station, Vijayawada - 520 013
College/ Institution	Vignans Institute Of Engineering For Women Visakhapatnam Kapujaggaraju peta, Vadlapudi post Backside of VSEZ, Visakhapatnam, Andhra Pradesh 530046 https://goo.gl/maps/DHcg82WRRK12

13.2. All such notices and documents shall be in the English language. All notices or other documents shall be deemed to have been received by the addressee in the case of despatch by post, five (5) working days following the date of dispatch of the notice or document and in the case of dispatch by hand or by facsimile or other electronic media, simultaneously with the delivery or transmission (as the case may be). To prove the giving of a notice or other document it shall be sufficient to show that it was dispatched in accordance with the provisions of Clause 13.1 hereof.

14. GOVERNING LAW AND JURISDICTION

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Visakhapatnam-49

Principal
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K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49.

This Agreement shall be governed and construed in accordance with the laws of India and subject to the arbitration clause mentioned above, the courts of Andhra Pradesh shall have the jurisdiction to entertain any dispute or suit arising out of or in relation to this Agreement.

15. PUBLICITY

Neither party shall make any public disclosure, except as may be required by applicable law, relating to discussions and or terms related to this Agreement, without obtaining the prior written consent of the other party. Either party shall not use and shall not let their employees, agents and subcontractors from using the name, trademark or logo of other party in any sale, marketing publication, advertisement, or other publication. Either party shall not make, or let its employees, agents or subcontractors make, any public statement relating to the other party.

16. RELATION OF THE PARTIES

Nothing herein shall be construed to neither constitute a partnership between the parties hereto nor to authorize the Vignans Institute Of Engineering For Womensave and except as provided herein or with the APSSDC's prior consent in writing, for making any representation.

17. MODIFICATION, AMENDMENT, SUPPLEMENT OR WAIVER

No modification, amendment, supplement to or waiver of this Agreement or any of its provisions shall be binding upon the parties hereto unless made in writing and duly signed by the authorized representative of the party against whom enforcement thereof is sought. Any failure or delay of any party to this Agreement to enforce at any time any of the provisions of this Agreement or to exercise any option which is herein provided, or to require at any time performance of any of the provisions hereof, shall in no way be construed to be a waiver of such provisions of this Agreement.

18. ENTIRE AGREEMENT

This Agreement together with all Appendices, Attachments and Addenda attached hereto constitute the entire agreement between the parties and supersedes all previous agreements, promises, representations, understandings and negotiations, whether written or oral, between the parties with respect to the subject matter hereof.

19. ASSIGNMENT

The Second Party shall not be entitled to, nor shall it purport to, assign this Agreement, without prior consent of the First Party.

This Agreement is prepared in two originals and each party shall retain one copy. Each copy shall be treated as original when taken separately and shall constitute as one when taken together.

In token of agreement and acceptance hereof by the two parties the authorized representatives of the two parties hereto have affixed their signatures herein below in the presence of witnesses as under:

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Principal
VIGNAN'S INSTITUTE OF
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K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

SIGNED ON BEHALF OF

ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION

Name: SriK. Sambasiva Rao, IRTS

Signature: _____

Designation: Managing Director & Chief Executive Officer

_____

_____

Name: _____

Signature: _____

Designation: PRINCIPAL

Witness

Name: _____

Signature: _____

Designation: _____

Name : Dr. Sudhakar Jyothula

Signature: _____

Designation: Professor & HOD-ECE

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K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49.

MEMORANDUM OF UNDERSTANDING (MOU)

Between

Vignan's Institute of Engineering for Women (VIEW)

and

Shamgar Software Solutions

This Memorandum of Understanding is made and executed at Visakhapatnam on the 2nd January 2018 This MOU signifies a statement of intent for collaboration between.

M/s. SHAMGAR SOFTWARE SOLUTIONS., having corporate office address situated at. D.No:12-141/1, Triveni Nilayam, Behind Bethany Hospital, PM Palem 2nd Bus Stop, Visakhapatnam, Andhra Pradesh, India-530041.

M/s. SHAMGAR SOFTWARE SOLUTIONS is an innovative software solutions & technical training company for the purpose of enhancing the skills of graduates here-in after called the FIRST PARTY.

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN, Kapujaggaraupeta, VSEZ Post, Visakhapatnam-530046, Andhra Pradesh State, India is approved by AICTE, New Delhi & affiliated to JNTU, Kakinada represented by Authorized Signatory, herein after called as the SECOND PARTY.

PRINCIPAL
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Visakhapatnam-49

3. LIMITATIONS AND WARRANTIES

a) Each party shall ensure that the other is not put to any liability for any actions of the one party.

b) Each party represents that they have the full power and authority to enter into this MOU in general.

4. GENERAL

a) Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.

b) College will provide the Labs with Internet facility for the conduction of the workshops for the students.

c) Both parties shall not use the name of the other in any advertisement or make any public announcement without the prior written approval of the other.

d) Any dispute under this MOU will be settled in Visakhapatnam through arbitration, if necessary.

5. PURPOSE/SCOPE OF THE COLLABORATION:

a) SHAMGAR SOFTWARE SOLUTIONS will conduct technical training programs, Workshops and guest lectures for both the faculty and the students of the college.

b) SHAMGAR SOFTWARE SOLUTIONS will provide Technology training and technical support for executing outsourced projects at the college.

c) College will extend the services of their library, laboratories with Computers in fully functional state, Internet facilities for training and development on various Technologies.

PRINCIPAL
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Duvvada, VSEZ (P.O.)
Visakhapatnam-49

BRAIN O VISION

MEMORANDUM OF UNDERSTANDING (MOU)

Between

Vignan's Institute of Engineering for Women (VIEW)

and

Brainovision Solutions India Pvt.Ltd

This Memorandum of Understanding is made and executed at Hyderabad on the 2nd January 2018. This MOU signifies a statement of intent for collaboration between.

M/s. BRAINOVISION SOLUTIONS INDIA PVT.LTD., having corporate office address situated at. Mohan's Elite, beside Smiline Dental, Madhapur, JNTU Road, Hyderabad-500081.

M/s. BRAINOVISION SOLUTIONS INDIA PVT.LTD. is an innovative software solutions & technical training company for the purpose of enhancing the skills of graduates here-in after called the FIRST PARTY.

AND

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN, Kapujaggaraupeta, VSEZ Post, Visakhapatnam-530046, Andhra Pradesh State, India is approved by AICTE, New Delhi & affiliated to JNTU, Kakinada represented by Authorized Signatory, herein after called as the SECOND PARTY.

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Visakhapatnam-49

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Visakhapatnam-49.

BRAIN O VISION

Terms & Conditions:

1. NATURE OF RELATIONSHIP
   a) This MOU is for collaboration between both parties, for mutual benefit, for many purposes defined in the PURPOSE/ SCOPE OF THE COLLABORATION section below and to enhance the intellectual quotient and aptitude for the CSE/ECE/IT/EEE students of the college.
   b) This MOU shall be valid till the tenure of 3 years and each party shall be at full liberty to terminate the collaboration with a notice period of 3 months.
   c) Involved parties shall take all reasonable steps to ensure successful completion of the collaboration and cooperate with each other in duly carrying out the obligation agreed upon.

2. MUTUAL OBLIGATION
   a) This Collaboration shall not be exclusive to both parties and shall not disallow each party from having similar collaboration with others. Except as expressly stated in this MOU, there shall be no obligation on any party to compensate the other in any manner to make any claim.
   b) Each party shall respect the others intellectual property (IP) and shall not use any trade name, trade mark, symbol or designation belonging to the other, without prior written approval. No party shall hold out as an agent or representative of the other or create any liability for the other.
   c) Both parties shall maintain confidentiality about any information, plans, discussions, strategies or any material which shall be deemed to be confidential and marked accordingly.
   d) Both the Parties should not interact with resources provided by each other except for the purpose of the MOU and should not hire or offer any other financial proposals to the aforesaid during the period of MOU and for one year after completion of the MOU.

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www.fb.com/brainovisionsolutions

BRAIN O VISION

3. LIMITATIONS AND WARRANTIES

a) Each party shall ensure that the other is not put to any liability for any actions of the one party.

b) Each party represents that they have the full power and authority to enter into this MOU in general.

4. GENERAL

a) Both parties will designate a representative from its side who will be the primary point of contact on behalf of that party.

b) College will provide the Labs with Internet facility for the conduction of the workshops for the students.

c) Both parties shall not use the name of the other in any advertisement or make any public announcement without the prior written approval of the other.

d) Any dispute under this MOU will be settled in Visakhapatnam through arbitration, if necessary.

5. PURPOSE/SCOPE OF THE COLLABORATION:

a) BRAINOVISION will conduct technical training programs, Workshops and guest lectures for both the faculty and the students of the college.

b) BRAINOVISION will provide Technology training and technical support for executing outsourced projects at the college.

c) College will extend the services of their library, laboratories with Computers in fully functional state. Internet facilities for training and development on various Technologies.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

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Visakhapatnam-49

+91 95029 35039
Info.brainovision@gmail.com
www.brainovision.in

BRAIN O VISION

d) BRAINOVISION will support few students of the department to carry out the project work under the joint guidance of COLLEGE and BRAINOVISION for students in various technologies the first party agrees to set up V-hub (Vision – Hub) at the campus of the second party with consent and suitable assistance within a year.

e) The first party agrees to set up Innovation and Design; V-Labs (Vision-Labs) at the campus of the second party with consent and suitable assistance within a year.

f) The first party will offer the online technical tests for free throughout the year for the registered students.

g) The first party offers the online technical tests for free throughout the year for all registered students.

6. TERMINATION OF CONTRACT:

a. This contract will be terminated based on the consensus of both parties.

b. If the contract is terminated, payment due for hours worked must be paid to the First Party i.e. training provider BRAINOVISION SOLUTIONS INDIA PVT.LTD.

c. Any delay of provision of Training or any delay of payment as per the agreed terms shall attract mutually agreeable penalty.

AGREED AND ACCEPTED

For BrainOvision Solutions India Pvt.Ltd.

Ganesh Nag Deddi
Founder & MD
Brainovision Solutions India Pvt.Ltd.

1ST Floor,
Mohan's Elite,
Madapur, JNTU Road,
Hyderabad- 500081
Date: _____

FOR Vignan's Institute of Engineering for Women.

Dr.Sudhakar Jyathula
Principal
Vignan's Institute of Engineering for Women
Kapujaggampeta,
VSEZ Post,
Visakhapatnam
Andhra Pradesh-530046
Date: _____

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Visakhapatnam-49.

PRINCIPAL
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K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Skilling & Scaling Technologies

CCC Digital India Pvt Ltd.

And

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

VISAKHAPATNAM

(Approved by AICTE, New Delhi::Affiliated to JNTUK, Kakinada)

FOR

PROVIDING TRAINING ON EMPLOYABBILITY SKILLS, CAPACITY BUILDING PROGRAMMES ON LIFE SKILLS

PRINCIPAL
Vignan's Institute of
Engineering for Women
Kapu, VSEZ (P.O.)
Visakhapatnam-49

MEMORANDUM OF UNDERSTANDING

A memorandum of understanding (MOU) is made and entered into on 02 Oct 2017 by and between **CCC Digital India Pvt Ltd.**, Sri Sai Gayatri Towers, Wipro Circle, Financial District, Hyderabad-500008 (hereafter to be referred as First Party)

And

Vignan Institute of Engineering for Women, located at VSEZ, Duvvada, Visakhapatnam (hereafter to be referred as Second Party)

BOTH PARTIES mutually agree to the following Articles:

ARTICLE-I: SCOPE OF THE MOU

This MOU details the modalities and general conditions regarding collaboration between Vignan Institute of Engineering for Women and CCC Digital India Pvt Ltd. for enhancing the knowledge and employability skills of the students in the emerging technologies. The areas of cooperation can be extended through mutual consent.

ARTICLE-II: SCOPE AND TERMS OF INTERACTIONS

Both parties shall encourage interactions between the Engineers, Research scholars, Faculty members and Students of Vignan Institute of Engineering for Women and CCC Digital India Pvt Ltd. through the following arrangements:

a) Exchange of personnel through deputation/internship as per the rules of the respective institute, for limited periods as mutually agreed upon.
b) Organization of joint conferences and seminars.
c) Practical training of students of Vignan Institute of Engineering for Women at CCC Digital India Pvt Ltd.
d) Conducting Faculty development programmes on latest technologies.
e) Helping in conducting Hackathons on latest Themes relevant to Industry.

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN * VISAKHAPATNAM *

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

f) CCC Digital India Pvt Ltd. may showcase its business activities at the seminars / workshops / conferences etc. held at Vignan Institute of Engineering for Women.

Both the parties mutually agree to the following terms:

1. All Intellectual Property Rights in any material provided or made accessible by either party to the other will remain with the party providing or making available such material and nothing in this MOU is intended to or shall affect a transfer of any such Intellectual Property Rights of either party to the other.
2. This MOU shall commence as of the date first written above and will be valid for 05 Years and thereafter will be extended for a period of 02 years on mutual consent. This MOU may be terminated by either party upon written notice to the other with the Notice period of 01 month.
3. All notices to be provided under this MOU shall be provided in English and sent in writing by hand delivery, fax, e-mail, courier, first class airmail, postage prepaid, by either Party hereto, to the other at the following addresses, which may be updated by either party by giving notice to the other as set forth herein

The address for service of notice to the respective Part Vignan's Institute of Engineering for Women is as given below:

Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSEZ (Post)
Visakhapatnam (A.P) – 530049, India.

CCC Digital Pvt Ltd.
Sri Sai Gayatri Towers, Wipro Circle
Financial District, Hyderabad-500008

Either party may change its mailing address by written notice to the college in accordance with this paragraph. The party this college may also later decide upon sharing each other's email ID for such notices etc.

GOVERNING LAW & JURISDICTION

This Agreement shall be governed by and constructed in accordance with the laws of India, without giving effect to its choice of laws. Rules shall be submitted to the exclusive jurisdiction of the courts of Vijayawada, Andhra Pradesh state.

PRINCIPAL
Vignan's Institute of Engineering for Women
K.T. Peta, VSEZ (P.O.)

IN WITNESS WHEREOF, the duly authorized representatives of the Party Vignan's Institute of Engineering for Women have caused this Agreement to be executed on the date first written above:

For& On behalf of Vignan's Institute of Engineering for Women, Visakhapatnam.	For & On behalf of CCC Digital Pvt Ltd. Sri Sai Gayatri Towers, Wipro Circle Financial District, Hyderabad
Name: Dr. Sudhakar Jyothula Designation: Principal Place: Date: Visakhapatnam 2/10/17	Name: Rayana Venkata Siva Prasad Designation: Chief Technology Officer Place: Hyderabad Date: 02 Oct 2017

Witnesses 1:	Witnesses 2:
Name: Mr PS Ravindra Designation: Dean-Admin Place: Visakhapatnam Date: 2/10/17	Name: M. Krishna Kishore Designation: Asst Head-Training Place: Visakhapatnam Date: 02-10-2017

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN * VISAKHAPATNAM *

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-49

Memorandum of Understanding

This MoU is made on this Day 29.06.2017

Between

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN (VIEW), located at Kapujaggarajupeta, VSEZ (Post), Visakhapatnam District, Pin-530049 (Hereafter to be referred as FIRST PARTY).

AND

OMNI RK SUPER SPECIALTY HOSPITAL, located at Ramnagar, Visakhapatnam represented by the Director Dr.K.Radha Krishna on behalf of Marketing Vice-President Mr.Srinivas Savana (Hereafter to be referred as SECOND PARTY).

Objective:

A Memorandum of Understanding (MoU) describes a bilateral agreement between FIRST PARTY, **Vignan's Institute of Engineering for Women** and SECOND PARTY, **OMNI RK Super Specialty Hospital,** located at Ramnagar, Visakhapatnam, which articulates in convergence of will between the parties to exchange knowledge sharing and services which intended in a common line of action.

Based on the series of discussions, it is decided that OMNI RK Super Specialty Hospital, located at Ramnagar, would implement services as per proposal given earlier and following terms and conditions as below:

Commitments from FIRST PARTY (VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN)

In accordance with the above agreement, institute is going to provide the following:

1. Training session for the staff of OMINI RK Super Specialty Hospital.
2. Knowledge sharing in terms of networking and computer applications.

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Engineering for Women
V. I. Peta, VSEZ (P.O.)
Visakhapatnam-49

OMNI RK™
Super Speciality Hospital

Commitments from SECOND PARTY (OMINI RK Super Specialty Hospital)

Regarding Exclusive tie up for extending our services to your employees and their eligible dependents. The SECOND PARTY offers the following privileges.

1. Cashless treatment in case of emergency if HR personnel of the Unit accompany the patient.
2. Availability of Qualified Physician round the clock.
3. Single point contact for **PARTY ONE** employees.
4. One step ahead accommodation.
5. 10% discount on total bill excluding medicines and implants, if the total bill paid by staff of VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN on our tariff.
6. 10% discount exceeded assured amount (excluding implants and medicines).
7. 50% discount on Non medical expenses.
8. 10% discount on total bill excluding implants and medicines for non insured dependent of employee. (On the recommendation of HR Manager/Executive of the unit)
9. 20% discount on OP investigations.
10. Free ambulance service up to 5 km from our Hospital.
11. Health talks unit wise on request.

Termination: This MoU may be terminated by any party on request during the course of agreement.

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K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Vice-President
(Mr.Srinivas Savana)
OMNI RK Super Specialty Hospital

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Visakhapatnam-49

Document details - Structural and electrical properties of Ca doped BiFeO₃ multiferroic nanomaterials prepared by sol-gel auto-combustion method

Journal of the Indian Chemical Society

Volume 99, Issue 6, June 2022, Article number 100465

Structural and electrical properties of Ca doped $BiFeO_3$ multiferroic nanomaterials prepared by sol-gel auto-combustion method(Article)

Sravani, G.M., Murali, N., Chandra Sekhar, B., Dhanalakshmi, B., Parajuli, D., Gunavardhana Naidu, T., Verma, R., Kumar, R., Krishan, B., Samatha, K.

[a]Department of Physics, Andhra University, A. P., Visakhapatnam, India
[b]Department of Engineering Physics, AUCE (A), Andhra University, A.P, Visakhapatnam, India
[c]Vignan's Institute of Engineering for Women, A. P., Visakhapatnam, 46, India

View additional affiliations

Abstract

Sol-gel auto combustion method was adopted for the synthesis of $Bi_{1-x}Ca_xFeO_3$ (x = 0.00, 0.05, 0.1, 0.15, 0.2 and 0.25) multiferroic nanoparticles and their structural and electric properties were investigated. The two peaks at (012) and (110) planes at diffracting angles (2θ) of 31.9° and 32.1° in the XRD pattern indicates their rhombohedral structure with the R3c space group. The cole-cole plot in the 10 Hz–1 MHz frequency range shows the increasing semicircles shifting towards higher frequency, indicating increasing grain and grain boundaries. © 2022 Indian Chemical Society

SciVal Topic Prominence

Topic: Ferroelectric Materials | Magnetic Properties | Dromaiidae

Prominence percentile: 99.022

Author keywords

Ca doped BiFeO3 | Electrical properties | SEM | XRD

Indexed keywords

EMTREE drug terms: bismuth ferrite | calcium | nanoparticle | unclassified drug

EMTREE medical terms: Article | combustion | dielectric constant | electrical parameters | field emission scanning electron microscopy | frequency | rhombohedral crystal | sol-gel | synthesis | X ray diffraction

Chemicals and CAS Registry Numbers:

calcium, 7440-70-2, 14092-94-5

Funding details

Funding sponsor	Funding number	Acronym
Department of Science and Technology, Ministry of Science and Technology, India See opportunities by डीएसटी	IF180772	डीएसटी

Funding text

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - Spectroscopic, quantum mechanical, electronic excitation properties (Ethanol solvent), DFT investigations and molecular docking analysis of an anti-cancer drug Bendamustine

Journal of Molecular Structure

Volume 1253, 5 April 2022, Article number 132211

Spectroscopic, quantum mechanical, electronic excitation properties (Ethanol solvent), DFT investigations and molecular docking analysis of an anti-cancer drug Bendamustine(Article)

Ramana, P.V., Sundius, T., Muthu, S., Mouli, K.C., Krishna, Y.R., Prasad, K.V., Devi, R.N., Irfan, A., Santhamma, C.

[a]Department of Engg. Physics, AUCE (A), Andhra University, Visakhapatnam, 530003, India
[b]Department of Physics, University of Helsinki, P.O, Box 64, FIN-00014, Finland
[c]Department of Physics, Arignar Anna Govt.Arts College, Cheyyar, Tamil Nadu 604047, India

View additional affiliations

Abstract

In this investigation, optimization geometry of the molecule, FT-IR, FT-Raman, and UV-Vis spectra, vibrational frequencies, assigning of suitable vibrational modes of Bendamustine (an anti-cancer drug) were summarised on the grounds of distribution of potential energy. Spectroscopic investigations are attempted by employing DFT/B3LYP with 6-311++G (d, p) level. The output of the computations was implemented to model the spectra of the Bendamustine, which agrees well with the recorded spectra. The TDFT had been utilized to compute the strengths of oscillators. To ascertain the transfer of charge inside the molecule HOMO and LUMO analytics have been utilized. The NBO investigation has been employed to verify the stability of the molecule by observing internal charge transfer, hyperconjugation, and energy of stabilization. Molecular electrostatic potential and Mulliken's charges were thoroughly studied by using DFT methods. The NLO characteristics of the title drug molecule were investigated with B3LYP and HF basis functionals. The reactive sites and reactivity of the title drug molecule have been extensively studied with help of condensed Fukui functions and global descriptors. The molecular docking investigations of the title drug molecule were executed with the DNA binding protein of Cellular Tumour Antigen P53. © 2021 Elsevier B.V.

SciVal Topic Prominence

Topic: Density Functional Theory | Molecular Orbitals | Electric Dipole Moments

Prominence percentile: 96.883

Author keywords

DFT | Fukui functions | IR | Molecular docking | NBO | Raman | UV

Indexed keywords

Engineering controlled terms: Charge transfer | Diseases | Molecules | Organic solvents | Potential energy | Quantum theory | Spectroscopic analysis | Stabilization

Engineering uncontrolled terms: Anticancer drug | DFT | Drug molecules | Fukui functions | IR | Molecular docking | NBO | Raman | Spectra's | UV

Engineering main heading: Molecular modeling

Funding details

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.), Visakhapatnam-49

Document details - Strategic Placement of Solar Power Plant and Interline Power Flow Controllers for Prevention of Blackouts

Inventions

Volume 7, Issue 1, March 2022, Article number 30

Strategic Placement of Solar Power Plant and Interline Power Flow Controllers for Prevention of Blackouts(Article)(Open Access)

Mishra, A., Venkata, N.K.G., Bali, S.K., Bathina, V.R., Ramisetty, U.M., Gollapudi, S., Fayek, H.H., Rusu, E.

[a]Department of Electrical and Electronics Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, 530049, India
[b]Department of Electrical and Electronics Engineering, JNTUA CE, Pulivendula, 516390, India
[c]Department of Electrical and Electronics Engineering, GITAM University, Visakhapatnam, 530045, India

View additional affiliations

Abstract

In these post COVID times, the world is going through a massive restructuring which India can use to its benefit by attracting foreign industrial investment. The major requirement is a reliable and ecofriendly electrical power source. Of late, renewable energy sources have increasingly become popular as alternative source of electricity. They can provide immense aid in improving the reliability of the power system, when placed properly. The alternative integrated energy sources along with FACTS devices can provide a promising future for reliable power systems. In this paper, an effective location for the solar power unit and Interline Power Flow Controller using Line Severity Index is proposed in order to avoid contingencies. An Indian 62 bus system and IEEE 57 bus system are considered for the study. The Firefly algorithm is used to tune the IPFC in the Integrated Energy Systems scenario, for a dual objective function. The effect of placement of the solar unit and the optimized IPFC is analyzed and studied in detail in this paper. © 2022 by the authors. Licensee MDPI, Basel, Switzerland.

SciVal Topic Prominence

Topic: Flexible AC Transmission System | Thyristors | Controller

Prominence percentile: 89.450

Author keywords

Contingency management | FACTS | Integrated power system | IPFC | Renewable energy system

Funding details

Funding sponsor	Funding number	Acronym
Unitatea Executiva pentru Finantarea Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii	PN-III-P4-ID-PCE-2020-0008	UEFISCDI

Funding text

This work was funded by Unitatea Executiva Pentru Finantarea Invatamantului Superior a Cercetarii Dezvoltarii si Inovarii: PN-III-P4-ID-PCE-2020-0008.

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Source Type: Journal
Original language: English

DOI: 10.3390/inventions7010030
Document Type: Article
Publisher: MDPI

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Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - A Compendious Analysis of Feature-Extraction Algorithms to Frame Fusion Rules

International Journal of Computing and Digital Systems

Volume 11, Issue 1, 2022, Pages 21-37

A Compendious Analysis of Feature-Extraction Algorithms to Frame Fusion Rules(Article)(Open Access)

Kumari, T.S., Koteswararao, S., Prabha, I.S.

[a]Department of Electronics and Communication Engineering, Vignan` s Institute of Engineering for Women, Visakhapatnam, India
[b]Department of Electronics and Communication Engineering, K. L.E. F (Deemed to be University), Guntur, India
[c]Department of Electronics and Communication Engineering, Jawaharlal Nehru Technological University, Kakinada, India

Abstract

Advancement in sensor technology provides the complete information captured by multiple sensors. To reduce the eye strain and workload from analyzing the scene with multiple images, the information is combined into a single image by the process called image fusion. In this paper, a compendious analysis of feature-extraction based fusion algorithms that define an appropriate fusion rule is reviewed. A state-of-art classification of feature-based fusion schemes is carried out and the extracted feature maps are presented. The qualitative analysis for different fusion methods are illustrated and compared. The quantitative fusion metrics are grouped as contrast, information, edge and visual based metrics and are evaluated. Finally, the conclusion and future directions are briefed out. © 2022 University of Bahrain. All rights reserved.

SciVal Topic Prominence

Topic: Image Fusion | Pulse Coupled Neural Network | Contourlet Transform

Prominence percentile: 98.687

Author keywords

Feature-extraction | Fusion metric | Fusion rule | Image fusion | Saliency features | Statistical features | Structural features

ISSN: 2210142X
Source Type: Journal
Original language: English

DOI: 10.12785/ijcds/110102
Document Type: Article
Publisher: University of Bahrain

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - The fusion of mri and ct medical images using variational mode decomposition

Applied Sciences (Switzerland)

Volume 11, Issue 22, November 2021, Article number 10975

The fusion of mri and ct medical images using variational mode decomposition(Article)(Open Access)

Polinati, S., Bavirisetti, D.P., Rajesh, K.N.V.P.S., Naik, G.R., Dhuli, R.

[a]School of Electronics Engineering, VIT University, Vellore, 632014, India
[b]Department of ECE, Vignan's Institute of Engineering for Women, Visakhapatnam, 530046, India
[c]School of Computing Science and Engineering, VIT Bhopal, Bhopal, 466114, India

View additional affiliations

Abstract

In medical image processing, magnetic resonance imaging (MRI) and computed tomography (CT) modalities are widely used to extract soft and hard tissue information, respectively. However, with the help of a single modality, it is very challenging to extract the required pathological features to identify suspicious tissue details. Several medical image fusion methods have attempted to combine complementary information from MRI and CT to address the issue mentioned earlier over the past few decades. However, existing methods have their advantages and drawbacks. In this work, we propose a new multimodal medical image fusion approach based on variational mode decomposition (VMD) and local energy maxima (LEM). With the help of VMD, we decompose source images into several intrinsic mode functions (IMFs) to effectively extract edge details by avoiding boundary distortions. LEM is employed to carefully combine the IMFs based on the local information, which plays a crucial role in the fused image quality by preserving the appropriate spatial information. The proposed method's performance is evaluated using various subjective and objective measures. The experimental analysis shows that the proposed method gives promising results compared to other existing and well-received fusion methods. © 2021 by the authors. Licensee MDPI, Basel, Switzerland.

SciVal Topic Prominence

Topic: Image Fusion | Pulse Coupled Neural Network | Contourlet Transform

Prominence percentile: 98.687

Author keywords

CT | Image fusion | Intrinsic mode functions (IMFs) | LEM | MRI | VMD

ISSN: 20763417
Source Type: Journal
Original language: English
DOI: 10.3390/app112210975
Document Type: Article
Publisher: MDPI

Naik, G.R.; Adelaide Institute for Sleep Health, Flinders University, Bedford Park, SA, Australia;
Dhuli, R.; School of Electronics Engineering, VIT-AP University, Vijayawada, India;

Document details - The influence of agricultural farmers' entrepreneurial behavior on the business performance of dairy farmers in Andhra Pradesh

Universal Journal of Agricultural Research

Volume 9, Issue 2, March 2021, Pages 57-61

The influence of agricultural farmers' entrepreneurial behavior on the business performance of dairy farmers in Andhra Pradesh(Article)(Open Access)

Mandala, G.N., Verma, M., Verma, A., Sirisetti, S., Gandreti, V.R.R.

[a]Symbiosis Institute of Business Management, Symbiosis International Deemed to be University, Nagpur, India
[b]GITAM Institute of Management, GITAM Deemed to be University, Visakhapatnam, India
[c]Vignan's Institute of Engineering for Women, Visakhapatnam, India

Abstract

In the present worldwide serious business and industrialization, entrepreneurs can assume a larger part. The innovative movement has an immediate bearing on the country's financial development. It fills in as an impetus during the time of industrialization and monetary turn of events. Entrepreneurship is the focal power of monetary action, which is needed for the advancement of the country. The innovative characteristics contribute to pay, fearlessness and a wellspring of accomplishment. Entrepreneurs are the critical people of any country in advancing financial development and innovative change. The dairy area plays a multi-faceted part in the financial improvement of country family units. Animals' raising emphatically affects value regarding pay; and work and neediness decreases in provincial territories. Dairy is a significant aspect of farming development and is additionally considered as a possible area for trade income. India has the biggest milk maker of milk on the planet. Dairy endeavor turns out to be nonstop revenue as well as gives great business freedoms to the poor provinces. Current investigation was conducted to know the innovative conduct of dairy farmers in Vizianagaram District of Andhra Pradesh in 2020 with 240 dairy entrepreneurs. The significant discoveries of the investigation were that a large portion of the prepared dairy farmers were in the medium to the high enterprising class and that lion's share of dairy farmers had an undeniable degree of pioneering qualities viz: self-confidence, achievement motivation, innovativeness, and risk-orientation.

SciVal Topic Prominence

Topic: Entrepreneurial Orientation | Corporate Entrepreneurship | Small And Medium-Sized Enterprises (SMEs)

Prominence percentile: 98.595

Author keywords

Dairy farmer | Entrepreneurial behaviour | Livestock production | Milch animal

ISSN: 23322268
Source Type: Journal
Original language: English

DOI: 10.13189/ujar.2021.090204
Document Type: Article
Publisher: Horizon Research Publishing

Mandala, G.N.; Symbiosis Institute of Business Management, Symbiosis International Deemed to be University, Nagpur, India

Cited by 2 documents

Cañete, D.C. , Alvarez, Ma.T.S.
The Efficiency of Technical and Economic Utilization of Cagayan Valley Green Dairy Technologies
(2022) Universal Journal of Agricultural Research

Alvarez, T.S. , Cañete, D.C.
Socio-economic profile of the dairy industry in cagayan valley: Potential users of green technology
(2021) Universal Journal of Agricultural Research

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Authors > Keywords >

Document details - A Study on Development of Pollution Index Models and Multivariate Statistical Analysis for Heavy Metals in the Soils of APIIC, Visakhapatnam

Nature Environment and Pollution Technology

Volume 20, Issue 1, March 2021, Pages 251-257

A Study on Development of Pollution Index Models and Multivariate Statistical Analysis for Heavy Metals in the Soils of APIIC, Visakhapatnam(Article) (Open Access)

Satyanarayana, G.V., Reddy, T.B., Vemuri, R.S.S.S., Rao, K.S., Karnena, M.K.

[a]Department of BSH, Vignan's Institute of Engineering for Women, Visakhapatnam, India
[b]Department of Environmental Sciences, Andhra University, Visakhapatnam, India
[c]Department of Environmental Science, Gitam Institute of Science, Gitam (Deemed to Be) University, Visakhapatnam, India

Abstract

Soil pollution is a worldwide problem caused by both natural and anthropogenic activities. This has resulted in health and physiological problems to both plants and animals. This study investigated heavy metals in soils within the immediate vicinity. Soils from Seven APIIC zones in Visakhapatnam were collected and analysed for physicochemical characteristics and heavy metals. The data obtained were subjected to the pollution index model and multivariate statistical analysis. The data obtained showed that the soils are rich in zinc, and heavy metals are above trace level with a minor positively skewed distribution. The analysis of pollution index, geoaccumulation index and ecological risk factors in soils in all the locations showed that they are mainly contaminated and polluted by Cd followed by Zn. The mean heavy metal concentrations around APIIC can be arranged in increasing order as Cr < Co < Pb < Cu < Cd < Zn. Element pairs such as Zn-Pb, Zn-Cu, Zn-Cd, Pb-Cu, Pb-Cd, Cu-Cr, Cd-Co and Cr-Co showed strong positive correlation coefficient "r" indicating their association in the study area. The observed concentrations of heavy metals revealed that soil contamination has been increasing and measures must be taken to ensure the adoption of more environment-friendly practices.

SciVal Topic Prominence

Topic: Soil | Cadmium | Average Daily Intake

Prominence percentile: 99.168

Author keywords

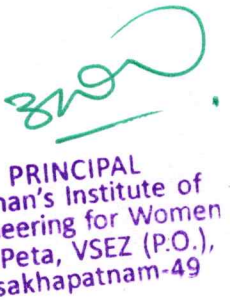
Heavy metals pollution index model soil pollution anthropogenic activities

Indexed keywords

Engineering controlled terms: Binary alloys, Cadmium, Cadmium alloys, Chromium alloys, Cobalt alloys, Copper alloys, Electron emission, Lead alloys, Metal analysis, Multivariant analysis, Risk assessment, Soils, Trace elements, Zinc alloys

Engineering uncontrolled terms: Anthropogenic activity, Environment friendly, Geo-accumulation index, Heavy metal concentration, Heavy metals in soil, Multivariate statistical analysis, Physicochemical characteristics, Positive correlations

Engineering main heading: Soil pollution



Document details - Estimation of Sparse Channel Using Bayesian Gaussian Mixture and CS-Aided Techniques for Pilot Contaminated Massive MIMO System

Wireless Personal Communications

Volume 117, Issue 2, March 2021, Pages 1387-1398

Estimation of Sparse Channel Using Bayesian Gaussian Mixture and CS-Aided Techniques for Pilot Contaminated Massive MIMO System(Article)

Ravi Babu, T., Dharma Raj, C., Adinarayana, V., Murali Krishna, K.

[a]Department of ECE, GITAM Institute of Technology, GITAM, Visakhapatnam, Andhra Pradesh, India
[b]Department of ECE, Vignan's Institute of Engineering for Women, Visakhapatnam, Andhra Pradesh, India

Abstract

Massive MIMO is established by future wireless communication systems to facilitate real-time user applications with having a higher of data transfer rates and spectral efficacy through perfect channel knowledge. Many pilot reuse schemes are working to improve channel performance regarding pilot overhead and channel knowledge. However, the pilot contamination becomes a major challenging issue in massive MIMO applications due to erroneous channel state information between neighboring cells. To tackle this issue, analyzing to the estimation of channel parameters in the preferred paths and interference from neighboring cells in the underdetermined system is essential. For estimating the channel behavior over Sparse Bayesian and Compressed sensing Aided methods are proposed by surviving the Pilot contamination effects by changing the angular to beam domain for sparse channel approximation. Simulation results have demonstrated the effectiveness of Bayesian and compressed sensing by compared with the standard estimators in connection with estimation accuracy, especially in pilot contamination.

SciVal Topic Prominence

Topic: Multiple-Input Multiple-Output (MIMO) System | Precoding | Channel Estimation

Prominence percentile: 99.127

Author keywords

Bayesian Gaussian mixture | Channel estimation | Compressed sensing | Massive MIMO | Pilot contamination

Indexed keywords

Engineering controlled terms: Compressed sensing | Contamination | Data transfer | Data transfer rates | MIMO systems | Real time systems

Engineering uncontrolled terms: Channel knowledge | Channel parameter | Gaussian mixtures | MIMO applications | Perfect channel knowledge | Pilot contaminations | Underdetermined systems | Wireless communication system

Engineering main heading: Channel state information

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

ISSN: 09296212 DOI: 10.1007/s11277-020-07927-6

Document details - Robust detection of video text using an efficient hybrid method via key frame extraction and text localization

Multimedia Tools and Applications

Volume 80, Issue 6, March 2021, Pages 9671-9686

Robust detection of video text using an efficient hybrid method via key frame extraction and text localization(Article)

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Abstract

Video text detection is a challenging problem, since the background of the video image is generally complex and its subtitles often have colour bleeding problems, blurred boundaries and low contrast due to video loss compression and low resolution. Text detection is an important method for many image processing tasks that are focused on text. In this paper, we put forward a robust detection method for extracting video text using hybrid method of MSER via morphological filtering for solving these problems. This can also solve the problems of bleeding in colour and floured boundaries. In this we added 2-D DWT (discrete wavelet transforms) is developed to remove background noise and improve sound and text contrast. SO that components are extracted with MSER from origin and processed images. In this work, the proposed method develops an efficient method of extracting and recognizing text, using the principle of morphological operations using MATLAB. Current text extraction methods–edge dependent and connected components when implemented separately yield better results. But using these approaches sometimes cannot get better results as well as its time taken. Therefore it is suggested that combine both methods, the outcome shows that the approach suggested produces better results than the other two approaches. © 2020, Springer Science+Business Media, LLC, part of Springer Nature.

SciVal Topic Prominence

Topic: Character Recognition | Video Indexing | Convolutional Neural Network

Prominence percentile: 98.239

Author keywords

Maximally stable extremal region | Preprocessing | Recognition | Segmentation | Text detection | Text region detection

Indexed keywords

Engineering controlled terms: Character recognition | Discrete wavelet transforms | Extraction | Mathematical morphology | Videotex

Engineering uncontrolled terms: Blurred boundaries | Connected component | Key-frame extraction | Loss compression | Morphological filtering | Morphological operations | Text localization | Video text detection

Engineering main heading: Image processing

Funding details

Funding text

Document details - Structural, optical and luminescence properties of pure, Fe-doped and glucose-capped CdO Semiconductor nanoparticles for their Antibacterial activity

Journal of Materials Science: Materials in Electronics

Volume 32, Issue 3, February 2021, Pages 3920-3928

Structural, optical and luminescence properties of pure, Fe-doped and glucose-capped CdO Semiconductor nanoparticles for their Antibacterial activity(Article)

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View additional affiliations

Abstract

Single-phase pure, Fe-doped and glucose-capped CdO nanoparticles (NPs) were prepared by a chemical precipitation method. The structure, morphology, composition, optical and luminescence properties of all samples were investigated using X-ray powder diffraction (XRD), scanning electron microscopy (SEM), Fourier transform infrared (FTIR) spectroscopy, photoluminescence (PL), and ultraviolet–visible (UV–Vis) spectroscopy. XRD study revealed the single-phase hexagonal crystal structure of all samples with P63/mmc space group. SEM detected the microstructural behaviour of all samples. The functional groups of the synthesized samples were also identified by FTIR spectroscopy. The calculated direct band energy values were estimated as 3.78 eV for pure, 3.65 eV for Fe-doped, and 3.63 eV for glucose-capped CdO NPs. From PL study, it was identified that glucose-capped CdO NPs showed the strongest photoluminescence signal (543 nm) comparing to the Fe-doped (436 nm) and pure (308 nm) CdO NPs. As compared to all samples, glucose-capped CdO NPs exhibited significant antibacterial activity against E. coli bacteria.

SciVal Topic Prominence

Topic: Cadmium Oxide | Optical Properties | Crystallite Size

Prominence percentile: 90.167

Indexed keywords

Engineering controlled terms: Crystal structure | Escherichia coli | Fourier transform infrared spectroscopy | Glucose | Iron compounds | Luminescence of inorganic solids | Nanoparticles | Photoluminescence | Precipitation (chemical) | Scanning electron microscopy | X ray diffraction | X ray powder diffraction

Engineering uncontrolled terms: Anti-bacterial activity | CdO-nanoparticles | Chemical precipitation method | FTIR spectroscopy | Hexagonal crystal structure | Luminescence properties | Photoluminescence signals | Semiconductor nanoparticles

Engineering main heading: Semiconducting cadmium compounds

PRINCIPAL
Vignan's Institute of Engineering for Women
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Document details - Multi-response optimization of EDM parameters using grey relational analysis (GRA) for Ti-5Al-2.5Sn titanium alloy

World Journal of Engineering

Volume 18, Issue 1, 7 Jan 2021, Pages 50-57

Multi-response optimization of EDM parameters using grey relational analysis (GRA) for Ti-5Al-2.5Sn titanium alloy(Article)

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Abstract

Purpose: In this research, electro discharge machining (EDM) of Ti-5Al-2.5Sn titanium alloy is performed taking gap voltage, pulse on time, peak current and duty cycle as process parameters. The purpose of this paper is to find out the optimal process parameters setting for getting higher machining efficiency. Design/methodology/approach: For experimental design, a face-centered central composite design (FCCCD)-based response surface methodology (RSM) is used. Multi-objective optimization like grey relational analysis (GRA) is adopted to achieve the higher machining efficiency by means of lower radial overcut (ROC), surface roughness (Ra), tool wear rate (TWR) and higher material removal rate (MRR). For the statistical study, analysis of variance (ANOVA) has been carried out. Findings: The result shows that gap voltage, peak current and pulse on time are the most efficient parameters for the responses. An optimal parameter setting has been obtained for achieving higher machining efficiency. For validation of the study, confirmation experiment has been performed at optimal parameters setting. Originality/value: Optimum parameter level for higher machining performance of Ti-5Al-2.5Sn Titanium alloy has been achieved machined by copper electrode during EDM operation. © 2020, Emerald Publishing Limited.

SciVal Topic Prominence

Topic: Electric Discharge Machining | Wire | Tool Wear

Prominence percentile: 99.156

Author keywords

Electro discharge machining | Grey relational analysis (GRA) | Multi-objective optimization | Response surface methodology

ISSN: 17085284
Source Type: Journal
Original language: English

DOI: 10.1108/WJE-06-2020-0210
Document Type: Article
Publisher: Emerald Group Holdings Ltd.

Bhaumik, M.; Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, India;

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Sahu, A.K. , Mahapatra, S.S. , Ravi, R.

Machinability Analysis of Composite Electrode Produced by Spark Plasma Sintering Process during Electro-Discharge Machining of Titanium Alloy

(2022) Journal of Materials Engineering and Performance

Nouri, H.

MBFA algorithm based optimization of tungsten carbide alloy wire cut machining process

(2022) International Journal on Interactive Design and Manufacturing

Kumar, S. , Kumar, S. , Sharma, R.

Artificial neural network based modeling to predict micro-hardness during EDM of cryo-treated titanium alloys

(2022) Materials Today: Proceedings

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Document details - PLI cancellation in ECG signal using intrinsic time scale decomposition with adaptive gain control

Journal of Engineering, Design and Technology

2021

PLI cancellation in ECG signal using intrinsic time scale decomposition with adaptive gain control

(Article in press ?)

Sai Bharadwaj, B., Chennupati, S.K.

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[b]GITAM University, Visakhapatnam, Andhra Pradesh, India

Abstract

Purpose: The purpose of this manuscript is to detect heart fault using Electrocardiogram. Mutually low and high frequency noises such as electromyography (EMG) and power line interference (PLI) degrades the performance of ECG signals. Design/methodology/approach: The ECG record depicts the procedural electrical movement of the heart, which is non-invasive foot age obtained by placing surface electrodes on designated locations of the patient's skin. The main concept of this manuscript is to present a novel filtering method to cancel the unwanted noises in ECG signal. Here, intrinsic time scale decomposition (ITD) is introduced to suppress the effect of PLI from ECG signals. Findings: In the existing ITD, the gain control parameter is a constant value; however, in this paper it is an adaptive feature that varies according to certain constraints. Simulation outcomes show that the proposed method effectively reduces the effect of PLI and quantitatively express the effectiveness with different evaluation metrics. Originality/value: The results found by the proposed method are compared with Fourier decomposition technique and eigen value decomposition methods (EDM) to validate the effectiveness of the proposed method. © 2021, Emerald Publishing Limited.

SciVal Topic Prominence

Topic: Electrocardiograph | Signal Denoising | Wavelet Analysis

Prominence percentile: 96.447

Author keywords

Empirical mode decomposition | Intrinsic time scale decomposition method | Power line interference

Indexed keywords

Engineering controlled terms: Gain control | Signal interference | Time measurement

Engineering uncontrolled terms: Adaptive gain control | ECG signals | Empirical Mode Decomposition | Interference cancellation | Intrinsic time scale decomposition method | Intrinsic time-scale decompositions | Low and high frequencies | Low-Frequency Noise | Powerline interference | Time-scale decomposition method

Engineering main heading: Electrocardiography

ISSN: 17260531
Source Type: Journal

DOI: 10.1108/JEDT-05-2021-0252
Document Type: Article

Document details - KINETICS OF BASE HYDROLYSIS OF TRIS(1,10-PHENANTHROLINE) IRON (II) COMPLEX IN THE PRESENCE OF MIXED SURFACTANTS OF SODIUM DODECYL SULPHATE AND TRITON X- 100: SYNERGISM AND CATALYTIC PROPERTY OF MIXED MICELLES

Journal of Chemical Technology and Metallurgy

Volume 56, Issue 6, 2021, Pages 1219-1224

KINETICS OF BASE HYDROLYSIS OF TRIS(1,10-PHENANTHROLINE) IRON (II) COMPLEX IN THE PRESENCE OF MIXED SURFACTANTS OF SODIUM DODECYL SULPHATE AND TRITON X- 100: SYNERGISM AND CATALYTIC PROPERTY OF MIXED MICELLES(Article)

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View additional affiliations

Abstract

To explore the catalytic property of mixed micelles, the kinetic study of the base hydrolysis of $[Fe(phen)_3]^{2+}$ was carried out in the presence of mixed micelles formed by surfactants of sodium dodecyl sulphate (SDS) and TritonX-100 over a wide range of mol fractions (α) of Triton X-100 and total surfactant concentrations (C). As a prerequisite to the kinetic study, micellization behavior of the mixed surfactants of SDS and Triton X-100 has been studied. The critical micellar concentrations (C_{exp}) of the mixtures of the two surfactants were determined experimentally using surface tension measurements. Using the C_{exp} values the average interaction parameter was calculated which indicates a synergistic behavior of the mixed micellar system. In the kinetic study, it was found that, at fixed value of C_t, the pseudo rate constant (k) of reaction increases with increasing the value of a and decreases with increasing total surfactant concentration, C_t at constant a. The pseudo phase model was applied to interpret the kinetic data in terms of binding constants.

SciVal Topic Prominence

Topic: Water | Micelles | Docusate Sodium

Prominence percentile: 81.971

Author keywords

kinetics | mixed micelles | synergism

Funding details

Funding sponsor	Funding number	Acronym
Ministry of Earth Sciences See opportunities by एमओईएस↗	MOES/ICMAM - PD/Supply	एमओईएस

Document details - Matrix Factorization Based Recommendation System using Hybrid Optimization Technique

EAI Endorsed Transactions on Energy Web

Volume 8, Issue 35, 2021, Pages 1-7

Matrix Factorization Based Recommendation System using Hybrid Optimization Technique(Article)(Open Access)

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Abstract

In this paper, a matrix factorization recommendation algorithm is used to recommend items to the user by inculcating a hybrid optimization technique that combines Alternating Least Squares (ALS) and Stochastic Gradient Descent (SGD) in the advanced stage and compares the two individual algorithms with the hybrid model. This hybrid optimization algorithm can be easily implemented in the real world as a cold start can be easily reduced. The hybrid technique proposed is set side-by-side with the ALS and SGD algorithms individually to assess the pros and cons and the requirements to be met to choose a specific technique in a specific domain. The metric used for comparison and evaluation of this technique is Mean Squared Error (MSE) © 2021. P. Srinivasa Rao et al., licensed to EAI. This is an open access article distributed under the terms of the Creative Commons Attribution license, which permits unlimited use, distribution and reproduction in any medium so long as the original work is properly cited.

SciVal Topic Prominence

Topic: Collaborative Filtering | Recommender Systems | Factorization

Prominence percentile: 99.899

Author keywords

ALS | collaborative filtering | latent factor | matrix factorization | optimization | recommendation system | SGD

ISSN: 16155548
Source Type: Journal
Original language: English
DOI: 10.4108/eai.19-2-2021.168725
Document Type: Article
Publisher: European Alliance for Innovation

Rao, P.S.; CSE MVGR College of Engineering, Vizianagaram, Andhrapradesh, India;

Document details - Chemical Speciation study of Ternary complexes of Zn(II)-Azelaic acid dihydrazide-L-Proline and Zn(II)-Azelaic acid dihydrazide-L-Lysine in aqueous medium

Research Journal of Chemistry and Environment

Volume 25, Issue 10, 2021, Pages 20-30

Chemical Speciation study of Ternary complexes of Zn(II)-Azelaic acid dihydrazide-L-Proline and Zn(II)-Azelaic acid dihydrazide-L-Lysine in aqueous medium(Article)

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Abstract

Chemometric speciation study of ternary complexes containing Zn(II) with a non toxic and ditopic ligand L= Azelaic acid dihydrazide (AZDH) and X= α-amino acids (L - Proline and L - Lysine) of type $[M_mL_lX_xH_h]$, (where m=1, 2; l=1; x=1, 2 and h= -2 to 5) in different ratios of M:L:X= 1:1:1, 1:2:1, 2:1:1and 2:1:2 was carried out using potentiometric method of data acquisition followed by chemometric modelling methods of analysis using SOPHD program and MINIQUAD-75 program. The stability constants of the ternary complexes were determined at 303± 0.1 K and 0.1M ionic strength. Best-fit chemical models were selected on the basis of statistical parameters like standard deviation (SD), U (sum of the residual squares in mass balance equations) and chi-square test etc. Zn(II)-AZDHLysine ternary complexes were found to be more stable due to side chain presence in the lysine. Comparitive stabilities of ternary complexes and binary species were evaluated quantitatively using Δlog K formulation.

SciVal Topic Prominence

Topic: Speciation (Chemistry) | Chemical Models | Complex

Prominence percentile: 52.926

Author keywords

Azelaic acid dihydrazide | Ditopic | Mixed ligand equilibria | Speciation | Ternary complexes

Indexed keywords

GEOBASE Subject Index: aqueous solution | chemical composition | chemical compound | complexity | concentration (composition) | detection method | ligand | speciation (chemistry) | amino acid | zinc

Funding details

Funding sponsor	Funding number	Acronym
	SB/S1/IC-35/2013	

Document details - Generalized prime D-filters of distributive lattices

Archivum Mathematicum

Issue 3, 2021, Pages 157-174

Generalized prime D-filters of distributive lattices(Article)(Open Access)

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Abstract

The concept of generalized prime D-filters is introduced in distributive lattices. Generalized prime D-filters are characterized in terms of principal filters and ideals. The notion of generalized minimal prime D-filters is introduced in distributive lattices and properties of minimal prime D-filters are then studied with respect to congruences. Some topological properties of the space of all prime D-filters of a distributive lattice are also studied. © 2021 Masarykova Universita. All rights reserved.

SciVal Topic Prominence

Topic: Congruence | Variety of Algebras | Ockham Algebra

Prominence percentile: 61.107

Author keywords

Congruence | D-filter | Dense element | Filter | Hausdorff space | Prime D-filter

Funding details

Funding text

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DOI: 10.5817/AM2021-3-157
Document Type: Article
Publisher: Masaryk University

Rao, M.S.; Department of Mathematics, MVGR College of Engineering, Vizianagaram, India;

Document details - Linear thermal radiation effects on mhd viscoelastic fluid flow through porous moving plate with first order chemical reaction, variable temperature, and concentration

Journal of Computational and Applied Research in Mechanical Engineering

Volume 10, Issue 2, 2021, Pages 497-509

Linear thermal radiation effects on mhd viscoelastic fluid flow through porous moving plate with first order chemical reaction, variable temperature, and concentration(Article)

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Abstract

Due to the presence of rheological flow parameters and viscoelastic properties, non-Newtonian fluid structure is intricate and enticing to investigate. The flow has been made by considering variable temperature and radiation effects for the magnetohydrodynamic viscoelastic liquid past a moving vertical plate in a porous state. First order homogeneous chemical reaction, Soret number, variable temperature and concentration have been taken into account. The leading mathematical proclamation is handled analytically by perturbation strategy. The central aspiration of this work is to explore the consequences of sundry parameters on fluid flow, thermal boundary and concentration profiles. Diagram and tabular trends of the profiles are delineated with apropos parameters. Our sketches illustrate that the velocity profile exposes decelerate scenery with escalating M due to the Lorentz force in the opposite direction of flow. Temperature profile is getting accelerated owing to thermal radiation and concentration distribution is declined by boosting up the chemical reaction and Schmidt number. Diminishing nature of momentum boundary layer with Sc is also portrayed. Furthermore, at the end of this paper the effects of different parameters on skin fricition coefficient and local Nusselt number are investigated.

SciVal Topic Prominence

Topic: Porous Materials | Vertical | Magnetohydrodynamics

Prominence percentile: 84.162

Author keywords

Chemical reaction | Heat sink | MHD | Porous media | Radiation | Soret Number | Visco-elastic

Indexed keywords

Engineering controlled terms: Boundary layer flow | Boundary layers | Chemical reactions | Heat radiation | Magnetohydrodynamics | Non Newtonian flow | Non Newtonian liquids | Nusselt number | Porous plates | Radiation effects | Viscoelasticity

Engineering uncontrolled terms: First order chemical reactions | Flowthrough | Moving plate | Porous medium | Soret number | Thermal radiation effects | Variable concentration | Variable temperature | Visco-elastic | Viscoelastic fluid flows

Engineering main heading: Porous materials

Document details - Problems and constraints faced by farmers in financing and marketing of agricultural produce in India

Universal Journal of Accounting and Finance

Volume 9, Issue 2, 2021, Pages 139-144

Problems and constraints faced by farmers in financing and marketing of agricultural produce in India(Article)(Open Access)

Mandala, G.N., Sangode, P.B., Devi, S.A., Rao Gandreti, V.R.

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Abstract

Purpose: In this study, the main aim is to know farmers' problems in the agricultural sector. Food products are the primary good to ensure the quality of life and health. In the world, many countries are depending on the agricultural sector and farmers are the backbone of the economy. Design/methodology/approach: In this study, the main aim is to find what are the challenges faced by the farmers in Andhra Pradesh State. The present paper attempts to spell out some of the constraints like production, and marketing, and finance-related problems faced by the farmers. Primary data were collected from the farmers to investigate the aim and applied a convenient sample technique to collect opinions from the respondent. Findings: To find out production, marketing, and finance-related problems have been faced by the farmers. This study helps to encourage farmers to produce more goods and to increase productivity. Originality/value: It was concluded that a spellbinding report utilizing essential information would be fitting to explore the destinations. The essential information was gathered from the farmers by utilizing a meeting plan explicitly intended for the reason. Most extreme consideration was taken to give essential explanations in vernacular to empower the respondents to reply as precisely as conceivable with no uncertainty. Copyright©2021 by authors, all rights reserved.

SciVal Topic Prominence

Topic: Soil and Water Conservation | Nile Blue | Ethiopia

Prominence percentile: 93.953

Author keywords

Agricultural | Economy | Farmer | Financing | Marketing | Production

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Source Type: Journal
Original language: English

DOI: 10.13189/UJAF.2021.090201
Document Type: Article
Publisher: Horizon Research Publishing

Mandala, G.N.; Symbiosis Institute of Business Management, Symbiosis International Deemed to be University, India

Document details - Green synthesis of 1,7-bis(substituted phenyl)1,6-heptadiene-3,5-diones and their inhibition of human pathogenic bacteria

Toxicological and Environmental Chemistry

Volume 103, Issue 2, 2021, Pages 129-136

Green synthesis of 1,7-bis(substituted phenyl)1,6-heptadiene-3,5-diones and their inhibition of human pathogenic bacteria(Article)

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Abstract

Curcumin analogs are synthesized with solid support under the concept of green chemistry, i.e. in the absence of organic solvents or hazardous chemicals using silica-sulfuric acid under solvent free conditions. Their structures are established through infrared, NMR, and mass spectroscopy and elemental analysis. The antibacterial activities of the synthesized curcumin analogs are evaluated against three human pathogenic Gram negative bacteria, taking ciprofloxacin as standard compound. Most compounds exhibit some antibacterial activity, with an efficacy depending upon nature and position of the phenyl substituents. © 2021 Informa UK Limited, trading as Taylor & Francis Group.

SciVal Topic Prominence

Topic: Curcumin | Demethoxycurcumin | Nanocrystal

Prominence percentile: 99.842

Author keywords

antibacterial | Curcumin analogs | green synthesis | inhibition zones | silica-sulfuric acid | solid support

Indexed keywords

Engineering controlled terms: Green Synthesis | Mass spectrometry | Organic chemicals | Silica

Engineering uncontrolled terms: Anti-bacterial activity | Gram-negative bacteria | Hazardous chemicals | Mass spectroscopy | Pathogenic bacterium | Phenyl substituents | Silica sulfuric acids | Solvent free conditions

Engineering main heading: Bacteria

GEOBASE Subject Index: antimicrobial activity | bacterium | chemical compound | detection method | inhibition | solvent

Species Index: Negibacteria

Funding details

Funding text

Document details - Synthesis, structural and microstructural properties of CBN ferroelectric ceramics

Ferroelectrics

Volume 573, Issue 1, 2021, Pages 154-165

Synthesis, structural and microstructural properties of CBN ferroelectric ceramics(Article)

Chandra Sekhar, B., Dhana Lakshmi, B., Ratna Raju, M., Ramesh, S., Subba Rao, P.S.V., Parvatheeswara Rao, B.

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[b]Department of Physics, Vignan's Institute of Information Technology (A), Visakhapatnam, India
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View additional affiliations

Abstract

$Ca_x Ba_{1-x} Nb_2O_6$ (CBN) ceramics with tetragonal tungsten bronze (TTB) structures are very attractive from academic and technological fronts due to their stupendous ferroelectric properties. Polycrystalline samples of $Ca_x Ba_{1-x} Nb_2O_5$ were prepared by a high temperature solid state reaction technique. The phase formation, microstructure and optical properties of the prepared samples were investigated by X-ray diffraction, scanning electron microscope and Raman spectrometer, respectively. X-ray analysis confirms the partially filled tetragonal tungsten bronze (TTB) structure. Scanning electron micrographs provide information related to the morphology and grain size distribution of the samples. Detailed analysis of the structural and optical properties suggests that these samples have undergone a phase transition well above the room temperature.

SciVal Topic Prominence

Topic: Niobates | Ferroelectric Materials | Bronze

Prominence percentile: 85.457

Author keywords

CBN ceramics | scanning electron microscopy | Solid state reaction | tetragonal tungsten bronze structure | X-ray diffraction

Indexed keywords

Engineering controlled terms: Barium compounds | Bronze | Calcium compounds | Energy dispersive X ray analysis | Ferroelectric ceramics | Ferroelectricity | Grain size and shape | High temperature applications | Ionic conduction | Morphology | Niobium oxide | Optical properties | Scanning electron microscopy | Solid state reactions | Tungsten | X ray diffraction analysis

Engineering uncontrolled terms: Ferroelectric property | Grain size distribution | High temperature solid-state reaction | Micro-structural properties | Polycrystalline samples | Scanning electron micrographs | Structural and optical properties | Tetragonal tungsten bronze

Engineering main heading: Structural properties

PRINCIPAL
Vignan's Institute of Engineering for Women
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Document details - Severe plastic deformation of AA 5083 and copper bimetallic metal

SN Applied Sciences

Volume 2, Issue 9, September 2020, Article number 1562

Severe plastic deformation of AA 5083 and copper bimetallic metal(Article) (Open Access)

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Abstract

The purpose of the present study is to investigate the effect of Cu casing and wall thickness of the drilled copper bars on uniform distribution of imposed stain in terms of structural homogeneity and distribution of micro-hardness in the severely deformed AA 5083 after equal channel angular extrusion (ECAE). In this study, AA 5083 cylindrical inserts of 6 mm, 8 mm and 10 mm diameter with 100 mm length are tightly inserted in the 16 mm square copper bars having the respective diameter holes. The square cross sectioned AA 5083 billets of 16 mm x 16 mm and 100 mm length are also considered as feedstock. The longitudinal surfaces of the bimetallic metals are polished and annealed at 530 °C for 1 h and then processed by ECAE up to four passes in route A (same sense after every pass without any rotation) at room temperature using a die with square cross-sectioned channels having channel intersection angle (ϕ) 105° and outer corner angle (Ψ) 30°. The initial grain size of 60 μm has been greatly refined and the ultrafine grains of the sizes in the range of 400–700 nm are formed in the extruded AA 5083 inserts after the four passes. The microhardness of extruded AA 5083 significantly increased from 69 to 134 VHN, 132, 176 and 157 respectively for the square billets without Cu casing and cylindrical inserts with the diameters of 6, 8 and 10 mm covered with Cu casing after the four passes. The variations in the microhardness measurements at different regions on the sectioned surfaces are also investigated in this study. The requirement of pressing force is very significantly reduced by using copper casing which is having more ductile nature and the frictional forces between the copper and steel die are very less as compared to the Aluminium and steel. The chances of formation of dead metal zone are avoided by filling the corner gap by cooper metal during the ECAE process. The uniform distribution of strain imposed on the severely deformed billets develops the homogeneous ultrafine grain structure and significantly improves the micro-hardness of the processed material.

SciVal Topic Prominence

Topic: Equal Channel Angular Pressing | Superplasticity | Plastic Deformation

Prominence percentile: 98.990

Author keywords

Al–Mg alloy | Copper casing | ECAE | Grain refinement | Microhardness

Indexed keywords

Engineering controlled terms: Aluminum coated steel | Angular distribution | Billets (metal bars) | Dies | Grain size and shape | Metals | Superconducting materials

Engineering uncontrolled terms: Channel intersections | Equal channel angular extrusion | Microhardness measurement | Processed materials | Severe plastic deformations | Structural homogeneity | Ultrafine grain structures | Uniform distribution

Document details - Kinetics of dissociation of bis(2,4,6-tripyridyl-s-triazine)iron(II) and tris(2,2′-bipyridyl)iron(II) in the presence of triton x-100/tween 80 mixed micellar medium

Asian Journal of Chemistry

Volume 32, Issue 8, August 2020, Pages 1955-1960

Kinetics of dissociation of bis(2,4,6-tripyridyl-s-triazine)iron(II) and tris(2,2′-bipyridyl)iron(II) in the presence of triton x-100/tween 80 mixed micellar medium(Article)(Open Access)

Srikanth Vemuri, R.S.S., Shyamala, P., Ameer Khan, Sk.

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Abstract

Surface tension studies were carried on the binary surfactant mixtures over a wide range of Triton X-100 mole fractions and total surfactant concentrations to obtain critical micellar concentration values. These values were used to determine the composition of the mixed micelles and the average interaction parameter (β) which contains all the interactions of the mixed surfactants. The method is based on Rubingh's theory using a Gauss-Newton iteration technique written in FORTRAN. The value of β was found to be -0.69 indicating synergistic behaviour i.e., combined positive catalytic effect of both the surfactants on rates of reactions. Hence, the kinetics of dissociation of bis(2,4,6-tripyridyl-s-triazine)iron(II) ($[Fe(tptz)2]^{2+}$) and tris(2,2′-bipyridyl)iron(II) ($[Fe(bipy)3]^{2+}$) were studied in the presence of Triton X-100/Tween 80 mixed micellar medium. The reactions have been carried out in the presence of mixed micelles of Triton X-100/ Tween 80 at various mole fractions of Triton X-100 (αTX-100 = [Triton X-100]/([Triton X-100] + [Tween 80])) and at different total surfactant concentrations of Triton X-100 and Tween 80 (Ct = [Triton X-100] + [Tween 80]). The results show that as αTX-100 increases the rate increases for all values of Ct. Kinetic analysis has been carried out by using a simple pseudo phase model and binding constants were determined. These binding constants were found to be in agreement with the binding constants obtained spectrophotometrically.

SciVal Topic Prominence

Topic: Surface-Active Agent | Salicylic Acid Phenyl Ester | Glycylleucine

Prominence percentile: 78.055

Author keywords

2,2′-Bipyridyl | Iron(II) | Mixed surfactants | S-Triazine | Triton X-100 | Tween 80

Funding details

Funding sponsor	Funding number	Acronym
Department of Science and Technology, Ministry of Science and Technology, India See opportunities by डीएसटी	SERB/F/5725/2013-14	डीएसटी
University Grants Committee		UGC

Funding text

Document details - Enhanced dielectric and magnetic properties in Mn-doped bismuth ferrite multiferroic nanoceramics

Applied Physics A: Materials Science and Processing

Volume 126, Issue 7, 1 July 2020, Article number 557

Enhanced dielectric and magnetic properties in Mn-doped bismuth ferrite multiferroic nanoceramics(Article)

Dhanalakshmi, B., Sekhar, B.C., Vivekananda, K.V., Rao, B.S., Rao, B.P., Rao, P.S.V.S.

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View additional affiliations

Abstract

Multiferroic nanoparticles of manganese doped bismuth ferrite with the chemical formula, $Bi_{1-x}Mn_xFeO_3$, with x values of 0, 0.025, 0.05, 0.075 and 0.1, were synthesized by sol–gel autocombustion method. X-ray diffraction measurements and Rietveld structural refinements were performed on the samples to ensure the formation of rhombohedrally distorted perovskite phase for all the samples. Dielectric measurements of the samples have been carried out in a wide range of frequencies from 1 to 40 MHz and at different temperatures in the range from 30° to 450 °C. Temperature-dependent dielectric anomalies were observed and the same were attributed to structural inhomogeneities at around 150°–270 °C, and to typical free charge carrier hopping mechanisms and anomalies at around 270°–420 °C. Impedance analysis of the samples provides indirect support for the reasons discussed in the dielectric properties and the corresponding electrical conductivity behaviour in these samples. Magnetic measurements were carried out to understand the influence of Mn ions on the magnetic behaviour of the studied multiferroics. The results of all these measurements are well discussed, and they indicate a considerable enhancement in the magnetic order with Mn doping and also a decrease in the dielectric loss with an evidence magnetoelectric coupling and thus making them useful for device applications. © 2020, Springer-Verlag GmbH Germany, part of Springer Nature.

SciVal Topic Prominence

Topic: Ferroelectric Materials | Magnetic Properties | Dromaiidae

Prominence percentile: 99.022

Author keywords

Dielectric measurements | Impedance spectroscopy | Magnetic measurements | Multiferroic nanomaterials | Sol–gel auto combustion method | X-ray diffraction

Indexed keywords

Engineering controlled terms: Bismuth | Dielectric losses | Dielectric properties | Ferrite | Perovskite | Sols | Synthesis (chemical)

Engineering uncontrolled terms: Auto-combustion methods | Dielectric and magnetic properties | Dielectric measurements | Electrical conductivity | Magnetoelectric couplings | Structural inhomogeneities | Temperature dependent | X-ray diffraction measurements

Engineering main heading: Multiferroics

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - Optimized utilization of interline power flow controller in an integrated power system

World Journal of Engineering

Volume 17, Issue 2, 3 Apr 2020, Pages 261-266

Optimized utilization of interline power flow controller in an integrated power system(Article)

Mishra, A., G.V, N.K., Bali, S.K.

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[c]Department of EEE, GITAM University, Visakhapatnam, India

Abstract

Purpose: There is a worldwide need to amplify the usage of renewable energy in the manufacture of electrical energy. Thus, the integrated energy systems (IESs) have become a major part of today's power systems. Wind and solar energies are intermittent power sources and may lead to voltage and power flow instabilities. The purpose of this paper is to use the interline power flow controller (IPFC) for limiting the overloading of the transmission lines and improving the voltage stability of the IES. Design/methodology/approach: This paper deals with an integrated system consisting of wind and solar energies and conventional systems. An appropriate position for the IPFC in the IES is proposed based on the disparity line utilization factor. The IPFC is then tuned for decreasing the loss of power and lessening the voltage deviation using the grey wolf algorithm. Findings: The method is implemented on a modified IEEE 30-bus system. Results from the study show that the mega volt ampere (MVA) loading of the overloaded lines is reduced for the IES. Also, the voltage stability and the voltage profile of the system are improved to a major extent. The real and reactive power loss of the system is also brought down. Originality/value: The use of renewable energy sources is a need of the present world to overcome environmental problems. This research focuses on the use of flexible AC transmission system (FACTS) devices with renewable sources incorporated in the power system. Very limited research has been done in this field. The IPFC, which is one of the most advanced FACTS device, is used for the study. © 2020, Emerald Publishing Limited.

SciVal Topic Prominence

Topic: Energy | Gas Network | Economic Dispatch

Prominence percentile: 99.785

Author keywords

Grey wolf algorithm | Integrated energy sources | Integrated power system | Interline power flow controller | Optimization

ISSN: 17085284
Source Type: Journal
Original language: English

DOI: 10.1108/WJE-06-2019-0176
Document Type: Article
Publisher: Emerald Group Holdings Ltd.

G.V, N.K.; Department of EEE, JNTUA College of Engineering, Pulivendula, India;

Cited by 1 document

Varanasi, J. , Tripathi, M.M.
Electricity Price Forecasting Using LSTM Network and K-Means Clustering by Considering the Effect of Wind Power Generation

(2022) Lecture Notes in Electrical Engineering

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Document details - Adaptive window- Based fractal dimension estimation for weight maps in contrast improved multi- Sensor fusion

Journal of Engineering Science and Technology

Volume 15, Issue 2, April 2020, Pages 1319-1337

Adaptive window- Based fractal dimension estimation for weight maps in contrast improved multi- Sensor fusion(Article)

Sandhya Kumari, T., Koteswara Rao, S., Santi Prabha, I.

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[b]Department of Electronics & Communication Engineering, K.L.University, Vaddeswaram, Guntur District, Andhra Pradesh, India
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Abstract

In this paper, as a primary processing step, visible images acquired at low illumination conditions are processed. Lower and large parameter based Stochastic Resonance models in Discrete Wavelet Transform domain is considered for primary processing. The pre-processing approach prior to fusion provides better scene interpretation and improves the performance of visible sensor sensitivity to night or low dynamic conditions. The contrast-enhanced visible image and infrared image fusion are then performed using a weighted average scheme. In the proposed algorithm, the weights considered for fusion are calculated using an adaptive window-based Fractal Dimension computation. Adaptive window-based Fractal Dimension weight maps computed in this approach has a significant effect on improving the sharpness and edge information of the final fused image. The quantitative features of the fused image in terms of its contrast, sharpness, symmetry and visual information are evaluated. Simulation results on various test images prove that the proposed approach for fusion is simple and has enhanced quality and quantitative outcome compared to recent techniques. © School of Engineering, Taylor's University

SciVal Topic Prominence

Topic: Image Fusion | Pulse Coupled Neural Network | Contourlet Transform

Prominence percentile: 98.687

Author keywords

Adaptive window | Contrast enhancement | Fractal dimension | Multi-Sensor fusion

ISSN: 18234690
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Taylor's University

Sandhya Kumari, T.; Department of Electronics & Communication Engineering, Vignan's Institute of Engineering for women, Visakhapatnam, Andhra Pradesh, India;

Document details - Magneto-optical fiber sensor based on Fabry-Perot interferometer with perovskite magnetic material

Journal of Magnetism and Magnetic Materials

Volume 499, 1 April 2020, Article number 166298

Magneto-optical fiber sensor based on Fabry-Perot interferometer with perovskite magnetic material(Article)

Rao, C.N., Gui, X.-G., Pawar, D., Huang, Q.-G., Sekhar Beera, C., Cao, P.-J., Liu, W.-J., Zhu, D.-L., Lu, Y.-M.

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Abstract

Perovskite mixed valence magnetic ($La_{0.7}Ba_{0.3}MnO_3$) material is explored as a magneto-optical sensor by integrating onto the surface of an optical fiber. The guiding properties of core modes excited by the material cavity are modulated by the external magnetic field. The experimental results concluded that the device exhibits linear response to applied magnetic field strength in the range of 0–20 mT with the sensitivity of 228 pm/mT and resolution of 0.87 Oe. Blue-shift phenomenon has been observed in the interference pattern, when a magnetic field is applied. Such wavelength shift is attributed to the influences of magneto-optical properties on optical-wave propagation. The results reveal the feasibility of developing an index-tuneable magneto-optical sensor using perovskite magnetic material. © 2019

SciVal Topic Prominence

Topic: Magnetic Fluids | Ferrofluids | Sensor

Prominence percentile: 89.868

Author keywords

Interference | Magneto-optic | Perovskite magnetic material | Refractive index

Indexed keywords

Engineering controlled terms: Barium compounds | Blue shift | Lanthanum compounds | Magnetic fields | Magnetic materials | Magnetooptical effects | Manganese compounds | Optical fibers | Optical sensors | Perovskite | Refractive index | Wave interference | Wave propagation

Engineering uncontrolled terms: Applied magnetic fields | Blue shift phenomenon | External magnetic field | Guiding properties | Interference patterns | Magneto-optical sensors | Magnetooptical properties | Optical wave propagation

Engineering main heading: Fabry-Perot interferometers

Funding details

Funding sponsor	Funding number	Acronym
	2015A010103016	

Document details - A two-stage processing approach for contrast intensified image fusion

World Journal of Engineering

Volume 17, Issue 1, 19 Feb 2020, Pages 68-77

A two-stage processing approach for contrast intensified image fusion(Article)

Teku, S.K., Sanagapallea, K.R., Inty, S.P.

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[c]Department of Electronics and Communication Engineering, JNTU Kakinada, Kakinada, India

Abstract

Purpose: Integrating complementary information with high-quality visual perception is essential in infrared and visible image fusion. Contrast-enhanced fusion required for target detection in military, navigation and surveillance applications, where visible images are captured at low-light conditions, is a challenging task. This paper aims to focus on the enhancement of poorly illuminated low-light images through decomposition prior to fusion, to provide high visual quality. Design/methodology/approach: In this paper, a two-step process is implemented to improve the visual quality. First, the low-light visible image is decomposed to dark and bright image components. The decomposition is accomplished based on the selection of a threshold using Renyi's entropy maximization. The decomposed dark and bright images are intensified with the stochastic resonance (SR) model. Second, texture information-based weighted average scheme for low-frequency coefficients and select maximum precept for high-frequency coefficients are used in the discrete wavelet transform (DWT) domain. Findings: Simulations in MATLAB were carried out on various test images. The qualitative and quantitative evaluations of the proposed method show improvement in edge-based and information-based metrics compared to several existing fusion techniques. Originality/value: In this work, a high-contrast, edge-preserved and brightness-improved image is obtained by the processing steps considered in this work to get good visual quality. © 2020, Emerald Publishing Limited.

SciVal Topic Prominence

Topic: Image Fusion | Pulse Coupled Neural Network | Contourlet Transform

Prominence percentile: 98.687

Author keywords

Image decomposition | Renyi entropy | Statistical measures | Stochastic resonance

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Original language: English

DOI: 10.1108/WJE-07-2019-0190
Document Type: Article
Publisher: Emerald Group Holdings Ltd.

Teku, S.K.; Department of Electronics and Communication Engineering, Vignan Institute of Engineering for Women, Visakhapatnam, India;

Document details - Structural and electrical properties of Nd³⁺ doped ferroelectric barium sodium niobate ceramics

Ferroelectrics

Volume 572, Issue 1, 2020, Pages 158-163

Structural and electrical properties of Nd^{3+} doped ferroelectric barium sodium niobate ceramics(Article)

Chandra Sekhar, B., Dhanalakshmi, B., Srinivasa Rao, B., Ramesh, S., Subba Rao, P.S.V., Parvatheeswara Rao, B.

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[b]Department of Physics, Vignan's Institute of Information Technology (VIIT-A), Visakhapatnam, India
[c]Wellfare Institute of Science, Technology and Management, Visakhapatnam, India

View additional affiliations

Abstract

Ferroelectric polycrystalline samples of $Ba_4Na_2Nb_{10}O_{30}$ with rare earth neodymium ion, member of the family of TB, were prepared using a high temperature solid state reaction technique and studied their electrical properties in a range of temperature (RT-to 300 °C) at 1KHz. X-ray diffraction analysis of these compounds shows the formation of single phase tetragonal structure at room temperature. Detailed studies of the dielectric properties suggest that they have undergone diffuse ferroelectric–paraelectric phase transition well above the room temperature. It has also been found that as the concentration of the neodymium increases, Curie temperature observed to be decreased. Measurements of electrical DC Conductivity as a function of temperature suggest that the compounds have semi conductivity properties the temperature, with positive temperature coefficient of resistance (PTCR) behavior. © 2021 Taylor & Francis Group, LLC.

SciVal Topic Prominence

Topic: Niobates | Ferroelectric Materials | Bronze

Prominence percentile: 85.457

Author keywords

Barium sodium niobate | dielectric constant | resistivity | TB structure

Indexed keywords

Engineering controlled terms: Barium | Barium compounds | Ferroelectricity | High temperature applications | Neodymium | Niobium compounds | Rare earths | Sodium | Sodium compounds | Solid state reactions | X ray powder diffraction

Engineering uncontrolled terms: Barium sodium niobate | High temperature solid-state reaction | Paraelectric phase transition | Polycrystalline samples | Semiconductivity | Structural and electrical properties | Temperature coefficient of resistance | Tetragonal structure

Engineering main heading: Temperature

Funding details

Funding text

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.), Visakhapatnam-49

Document details - Inverse kinematic analysis of 5-Axis hybrid parallel kinematic machine using CAD and regression analysis approach

International Journal of Computer Aided Engineering and Technology

Volume 13, Issue 4, 2020, Pages 475-507

Inverse kinematic analysis of 5-Axis hybrid parallel kinematic machine using CAD and regression analysis approach(Article)

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[b]Department of Mechanical Engineering, Jntuk, Kakinada, AP, India

Abstract

Since three decades for their potentially desirable fast dynamic performance, rigidity, and acceptable accuracy parallel kinematic machines (PKM) attracted interest from industry and academia in the machine tool/robot sectors. PKMs are highly used for their higher accuracy as it relies on system stiffness and rigidity. In PKM, the inverse kinematic analysis for finding the velocity and acceleration of a limb having more than two degree of freedom (DOF) manually is tedious. Also, generation of transformation matrix is too complex. In present work, six degrees of freedom 5-Axis hybrid parallel kinematic machine (HPKM) with hemisphere workspace has been modelled and assembled in CATIA. Secondly, inverse kinematic analysis of PKM was carried out in digital mockup unit (DMU), CATIA. The velocities and accelerations of all the three limbs at three different feed rates and variations in joint angles were found. On the other hand, the regression equations were generated for velocity and acceleration of three limbs, joint angles with respect to position and time, while the tool travels along the semi circular contour trajectory.

SciVal Topic Prominence

Topic: Parallel Manipulator | Stewart Platform | Biomechanics

Prominence percentile: 97.733

Author keywords

5-Axis HPKM | Contour trajectory | Digital mockup unit | DMU | Inverse kinematics | Regression analysis.

ISSN: 17572657
Source Type: Journal
Original language: English
DOI: 10.1504/IJCAET.2020.110486
Document Type: Article
Publisher: Inderscience Publishers

Suryam, L.V.; Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, AP, India;

Document details - V band frequency reconfigurable antenna for millimeter wave applications

Telecommunications and Radio Engineering (English translation of Elektrosvyaz and Radiotekhnika)

Volume 79, Issue 15, 1 January 2020, Pages 1315-1325

V band frequency reconfigurable antenna for millimeter wave applications(Article)

Malathi, S., Kethavathu, S.N., Aruna, S.

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[c]Andhra University College of Engineering(A), Visakhapatnam, Andhra Pradesh 530003, India

Abstract

A compact V band frequency reconfigurable microstrip patch antenna is introduced in this paper. The introduced antenna is a Psi shaped patch designed to operate at 48 GHz. This basic structure is modified by introducing p-i-n diodes, radiating slots, and resistors on the surface of the patch which exhibits multi-band operation at 63 GHz, 68 GHz, 69 GHz, and 70 GHz and is well suitable for 5G applications. The compactness of the introduced antenna is 8 mmx8 mmx0.254 mm and operates at the millimeter-wave range, i.e., (30 GHz - 300 GHz). The two p-i-n diodes are arranged on either side of the feeder and two symmetric slots with resistors are placed on the substrate which controls the feed line and this structure achieves the frequency reconfigurability. The patch is made of copper material and the antenna is designed on a material known as ROGERS R03003 substrate with properties of $\zeta = 3$ and $\delta = 0.0013$ and due to the dielectric loss for high-frequency performance, used an EM simulator which is HFSSv16. The simulated results show optimum gain and wide bandwidth at the operating frequency. © 2020 by Begell House, Inc.

SciVal Topic Prominence

Topic: Antenna | P-i-n Diodes | Reconfigurable

Prominence percentile: 96.421

Author keywords

5G | Millimeter-wave | P-i-n diodes | Resistors | V band

Indexed keywords

Engineering controlled terms: 5G mobile communication systems | Antenna feeders | Dielectric losses | Microstrip antennas | Millimeter waves | Resistors | Slot antennas | Structure (composition)

Engineering uncontrolled terms: High frequency performance | Millimeter-wave applications | Millimeter-wave range | Multi-band operations | Operating frequency | Reconfigurability | Reconfigurable microstrip patch antennas | Simulated results

Engineering main heading: Microwave antennas

ISSN: 00402508
CODEN: TCREA
Source Type: Journal
Original language: English

DOI: 10.1615/telecomradeng.v79.i15.20
Document Type: Article
Publisher: Begell House Inc.

Document details - Classification of gender by voice recognition using machine learning algorithms

Journal of Critical Reviews

Volume 7, Issue 9, 2020, Pages 1217-1229

Classification of gender by voice recognition using machine learning algorithms(Article)(Open Access)

Shiva Shankar, Raghaveni, J., Rudraraju, P., Vineela Sravya, Y.

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[c]Vignan's Institute of Engineering for Women, Kalujaggurajapeta, Visakhapatnam, Andhrapradesh, India

Abstract

Now a day's the person's gender has become very important in the economic markets in the type of advertisements. The objective of this project is to design a system that determines the speaker gender using the pitch of the speaker's voice. Identifying the gender from the properties of voice data set i.e., pitch, median, frequency etc. can be possible by using machine learning. In this project, we are trying to classify gender into male or female based on the dataset containing various attributes related to voice like pitch, frequency etc. Data pre-processing steps should be performed to find the gender classification of voice data by using algorithms of machine learning. The proposed system can be used to find the best algorithm among K-nearest neighbors (KNN), Random Forest, Logistic Regression, Decision Tree, support vector machine and gradient boosting to detect the gender of the speaker with maximum possible efficiency and accuracy.

SciVal Topic Prominence

Topic: Speaker Recognition | Support Vector Machine | Public Speaking

Prominence percentile: 55.156

Author keywords

Data pre-processing | Decision Tree | Gender classification | Gradient boosting | K-nearest neighbors (KNN) | Logistic Regression | Random Forest | Support vector machine

ISSN: 23945125
Source Type: Journal
Original language: English

DOI: 10.31838/jcr.07.09.222
Document Type: Article
Publisher: Innovare Academics Sciences Pvt. Ltd

Shiva Shankar, ; Department of Computer Science and Engineering, ;

Cited by 2 documents

Alagumalai, A. , Shou, W. , Mahian, O.
Self-powered sensing systems with learning capability
(2022) Joule

Gornale, S.S. , Kumar, S. , Siddalingappa, R.
Gender Classification Based on Online Signature Features using Machine Learning Techniques
(2022) International Journal of Intelligent Systems and Applications in Engineering

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Document details - Cost and revenue analysis of an impatient customer queue with second optional service and working vacations

Communications in Statistics: Simulation and Computation

Volume 51, Issue 8, 2022, Pages 4799-4814

Cost and revenue analysis of an impatient customer queue with second optional service and working vacations(Article)

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[a]Department of Applied Mathematics, Andhra University, Visakhapatnam, India
[b]Department of Basic Sciences and Humanities, Vignan's Institute of Engineering for Women, Visakhapatnam, India

Abstract

In this article, we propose a finite buffer impatient customer queue with second optional service (SOS) and working vacations. When the server is busy, an arriving customer either joins the queue or balks on the basis of state-dependent joining/balking probabilities. For each customer, the server provides two phases of service, namely, first essential service (FES) and SOS. All the customers demand FES, whereas only few customers opt for SOS after the completion of FES. At a service completion instant, if the system is empty, the server leaves for working vacation. During working vacations, the waiting customers activate an impatient timer which is exponentially distributed. It is assumed that the interarrival times, vacation times, service times during FES, SOS and during working vacations follow exponential distribution. The steady-state probabilities of the model and various performance measures are derived. In order to optimize the total expected cost of the system, particle swarm optimization technique has been adopted for finding the optimum service rates of the server. Numerical results are sketched out to demonstrate the impact of the system and cost parameters. © 2020 Taylor & Francis Group, LLC.

SciVal Topic Prominence

Topic: Retrial Queue | Working Vacation | Queueing System

Prominence percentile: 89.277

Author keywords

Balking | Cost–revenue | Particle swarm optimization | Reneging | Second optional service | Working vacations

Indexed keywords

Engineering controlled terms: Particle swarm optimization (PSO) | Queueing theory | Sales

Engineering uncontrolled terms: Essential services | Exponential distributions | Impatient customers | Inter-arrival time | Particle swarm optimization technique | Performance measure | Steady state probabilities | Total expected costs

Engineering main heading: Cost benefit analysis

Funding details

Funding text

The authors would like to thank the anonymous referees for their valuable comments and suggestions which helped in improving the quality of the paper.

Cited by 1 document

Majid, S.

Analysis of customer's impatience in queues with Bernoulli schedule server working vacations and vacation interruption

(2022) Afrika Matematika

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Document details - Power quality improvement of wind and solar hybrid energy sources interface to the grid using upqc

Journal of Advanced Research in Dynamical and Control Systems

Volume 12, Issue 2, 2020, Pages 1334-1342

Power quality improvement of wind and solar hybrid energy sources interface to the grid using upqc(Article)

Jyothi, B., Vinnakoti, S., Varma, P.S., Pushpa Latha, B.M.

[a]Smart Cities, Social Acceptability, Mission, Sustainability, India., Vignan's Institute of Information Technology, Visakhapatnam, India
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View additional affiliations

Abstract

In distribution systems with non-conventional energy sources, power electronic converters are being utilized. The enhancement of power quality characteristics for the wind, solar energy systems merge with grid connected system is predominantly concentrated in this paper. The wind, solar energy power plant is designed by using the corresponding equations. The inverter is used to feed the power in to transmission grid and it is used as a power converter based shunt active power filter. Everyfunction may be accomplishing either separately or concurrently. The UPQC is regulated based on the PWM controller and is formulated depending on the conviction of PQ theory. Nevertheless in the existence of non-linear load also balanced load currents are acquired by using this control. This workis done in MATLAB and simulation results are verified.

SciVal Topic Prominence

Topic: Power Quality | Grid | Photovoltaic System

Prominence percentile: 89.090

Author keywords

---STATCOM | And distributed generated system (DG) | Distribution system | Renewable energy | UPQC

ISSN: 1943023X
Source Type: Journal
Original language: English

DOI: 10.5373/JARDCS/V12I2/S20201171
Document Type: Article
Publisher: Institute of Advanced Scientific Research, Inc.

Jyothi, B.; Smart Cities, Social Acceptability, Mission, Sustainability, India., Vignan's Institute of Information Technology, Visakhapatnam, India

Document details - Indexing documents with reliable indexing techniques using Apache Lucene in Hadoop

International Journal of Intelligent Enterprise

Volume 7, Issue 1-3, 2020, Pages 203-214

Indexing documents with reliable indexing techniques using Apache Lucene in Hadoop(Article)

Lydia, E.L., Satyanarayan, S., Kumar, K.V., Ramya, D.

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View additional affiliations

Abstract

Mostly 85% of the data is presented in the form of text, which is the human-readable format. Present educational, business, medical organisations, etc. making use of big data analytics for storage of data and processing that stored data by using information retrieval. Often time's text documents have been transferred from one system to another system without any restrictions like, structured, unstructured and semi-structured data. Systems are well performed with high speed and less complexity only when it has all the data arranged in an orderly way. This paper describes how documents of text data are being Indexed using Apache Lucene with approaches in Hadoop. Most of the applications that deal with huge data over the internet are completely lacking. Use of effective analysis and techniques allow users in resulting high-performance and a challenging option in leading big data analytics. Copyright © 2020 Inderscience Enterprises Ltd.

SciVal Topic Prominence

Topic: Query | Query Processing | Semantic Web

Prominence percentile: 90.243

Author keywords

Apache Lucene | Big data | Indexing | Indexing techniques

Funding details

Funding sponsor	Funding number	Acronym
Department of Science and Technology, Ministry of Science and Technology, India See opportunities by डीएसटी		डीएसटी
Science and Engineering Research Board See opportunities by SERB		SERB

Funding text

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ISSN: 17453232
Source Type: Journal

DOI: 10.1504/IJIE.2020.104656
Document Type: Article

Cited by 3 documents

Chakraborty, P. , Chandra Das, N. , Patra, R.

Recent advances in processing, interpreting, and managing biological data for therapeutic intervention of human infectious disease

(2022) Big Data Analytics for Healthcare: Datasets, Techniques, Life Cycles, Management, and Applications

Singh, B. , Verma, H.K.

Application of Hadoop in data science

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Vassilakis, C. , Maniataki, D. , Lepouras, G.

Database Knowledge Enrichment Utilizing Trending Topics from Twitter

(2020) Proceedings of the 2020 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2020

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Document details - Hydrogen storage capacity in Ni/PD@FMWCNTs decorated graphene oxide/Cu-BTC composites at room temperatures: A sustainable cleaner energy production

International Journal of Surface Engineering and Interdisciplinary Materials Science

Volume 8, Issue 1, January-June 2020, Pages 1-12

Hydrogen storage capacity in Ni/PD@FMWCNTs decorated graphene oxide/Cu-BTC composites at room temperatures: A sustainable cleaner energy production(Article)

Konni, M., Karnena, M.K., Mukkamala, S.B.

[a]Vignan's Institute of Engineering for Women, Visakhapatnam, India
[b]GITAM (Deemed to be) University, Visakhapatnam, India

Abstract

Hydrogen is considered to be one of the renewable and cleanest energy source and most probable successor of conventional petroleum fuels. Hydrogen storage in nanoporous materials has been attracting a great deal of attention in recent years. The addition of carbon materials such as graphene oxides (GOs) and carbon nanotubes (CNTs) into MOFs can improve the physicochemical properties of parent MOFs with excellent chemical, mechanical and distinguished electronic thermal robustness. The decoration of the surface of graphene by metal could greatly facilitate the hydrogen storage. In the current study, the parent materials and their composites synthesized have been characterized by powder x-ray diffraction (XRD), scanning electron microscopy (SEM), transmission electron microscopy (TEM), and gas adsorption isotherms. The composite systems, GO/Cu-BTC/Ni@f-MWCNTs and GO/Cu-BTC/Pd@f-MWCNTs reached a hydrogen storage capacity of 3.91 and 4.21 wt. % at 77 K and 1.23 and 1.71% at 298 K.

SciVal Topic Prominence

Topic: Hydrogen Storage | United States Department of Energy | Graphite

Prominence percentile: 98.516

Author keywords

Composites | Graphene Oxide | Hydrogen Adsorption | Hydrogen Storage | Metal-Organic Frameworks | Sustainable Energy

Funding details

Funding sponsor	Funding number	Acronym
University Grants Commission	42-258/2013	UGC
Indian Institute of Technology Bombay		IITB

Funding text

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PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - Performance analysis of cryogenically treated plus tempered carbide inserts in turning of Inconel 718 using cryogenic minimum quantity lubrication cooling technique

Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology

Volume 233, Issue 12, 1 December 2019, Pages 1810-1819

Performance analysis of cryogenically treated plus tempered carbide inserts in turning of Inconel 718 using cryogenic minimum quantity lubrication cooling technique(Article)

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[b]Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, India
[c]Department of Mechanical Engineering, Gayatri Vidhya Parishad College of Engineering, Visakhapatnam, India

Abstract

The present study deals with performance investigation of cryogenically treated plus tempered carbide inserts during machining of Inconel 718. A novel cooling approach of combined minimum quantity lubrication with cryogenic coolant, cryogenic minimum quantity lubrication is examined to improve the machinability of Inconel 718 and compared with dry, wet, minimum quantity lubrication, and cryogenic cooling conditions. Tool wear, cutting forces, and chip morphology were analyzed to evaluate the effect of cooling under different conditions. The results revealed that minimum quantity lubrication and cryogenic conditions exhibited superior performance than wet and dry conditions. However, severe tool fracture and cutting forces were observed in cryogenic machining which is an outcome of hardened surface of nickel alloy due to cryogenic fluid. Cryogenic minimum quantity lubrication was understood to be the best machining condition generating least cutting force and tool wear. Furthermore, examining chip morphology under scanning electron microscopy revealed that cryogenic minimum quantity lubrication performed stable machining. © IMechE 2019.

SciVal Topic Prominence

Topic: Cutting Fluids | Lubrication | Cutting Process

Prominence percentile: 99.344

Author keywords

chip morphology | cryogenic minimum quantity lubrication | cutting force | Inconel 718 | minimum quantity lubrication | tool wear

Indexed keywords

Engineering controlled terms: Carbide cutting tools | Carbides | Cooling | Cryogenics | Cutting | Cutting tools | Morphology | Nickel alloys | Scanning electron microscopy | Thermal management (electronics) | Wear of materials

Engineering uncontrolled terms: Chip morphologies | Cutting forces | Inconel-718 | Minimum quantity lubrication | Tool wear

Engineering main heading: Lubrication

Document details - The influence of firm age on the relationship between the capital structure determinants and firm value

International Journal of Scientific and Technology Research

Volume 8, Issue 11, 1 November 2019, Pages 2958-2962

The influence of firm age on the relationship between the capital structure determinants and firm value(Article)

Mandala, G.N., Sirisetti, S., Srinivasa Rao, K., Gandreti, V.R.R., Gupta, N.

[a]GITAM Institute of Management, GITAM Deemed to be University, Visakhapatnam Department of Management Studies, Vignan's Institute of engineering for women, Visakhapatnam Mittal School of Business, Lovely Professional University, Punjab, India
[b]Department of Management Studies,Vignan's Institute of engineering for women, Visakhapatnam, Andra Pradesh, India
[c]Mittal School of Business, Lovely Professional University, Punjab, India

Abstract

Researchers have always made laudable contributions in examining the factors that influence individuals and business firms to adopt and maintain the capital structure decision during a firm's life cycle and the influence of firm age on the relationship bet ween the capital structure determinants and firm value. The research methodology is carried out to examine the financing choices of the top 100 firms in terms of market capitalization through a close outlook with the business life cycle. The determinant of capital structure decision is based on profitability, liquidity, nature of the industry, timing, and timing of the issue. Debt is taken as a fundamental source in an early stage where as in the mat urity stage; firms re-balance their capital structure gradually substituting debt for internal capital. This study aims to generate an idea of the dynamic evolution of the firm across the different stages, investment/disinvestment needs, profitability, cash flow generation, and risk changes. Moreover, the study is carried out with a comprehensive analysis of the firm's capital structure and the main elements in the classical theories, i.e. Trade-off Theory and Pecking Order Theory. © IJSTR 2019.

SciVal Topic Prominence

Topic: Asset Pricing Models | Value Premium | Factor

Prominence percentile: 97.402

Author keywords

Capital Structure | Financial Growth Cycle | Small And Medium-Sized Firms | Sources of Finance

ISSN: 22778616
Source Type: Journal
Original language: English
Document Type: Article
Publisher: International Journal of Scientific and Technology Research

Document details - Classification of the third and fourth heart sounds using intrinsic time-scale decomposition and support vector machine technique

International Journal of Innovative Technology and Exploring Engineering

Volume 9, Issue 1, November 2019, Pages 1172-1177

Classification of the third and fourth heart sounds using intrinsic time-scale decomposition and support vector machine technique(Article)(Open Access)

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[b]Department of Electronics and Communications, GITAM Institute of Technology, GITAM Deemed to be University, Visakhapatnam, Andhrapradesh, India

Abstract

The two diastolic heart sounds reflecting the malfunctionality of heart are third and fourth heartsounds(S3 and S4). Early detection of heart failures can decrease the risk by identifying the abnormal heart sounds through Phonocardiogram (PCG) signal analysis. In this paper abnormal heart sounds are identified and classified using Intrinsic time scale decomposition (ITD) and Support vector machine (SVM). The proposed framework has been tested on authenticated database signals under abnormal conditions. The success rate is really conquering for the SVM classifier with an accuracy over 94% in the S3 detection and 91% for the S4, which reveals the effectiveness and high efficiency of the proposed work. © BEIESP.

SciVal Topic Prominence

Topic: Heart Sounds | Phonocardiography | Cardiology

Prominence percentile: 95.142

Author keywords

Intrinsic timescale decomposition | PCG signal | Support vector machine

ISSN: 22783075
Source Type: Journal
Original language: English

DOI: 10.35940/ijitee.A4500.119119
Document Type: Article
Publisher: Blue Eyes Intelligence Engineering and Sciences Publication

Sai Bharadwaj, B.; Department of Electronics and Communications, Vignan's Institute of Engineering for Women, Visakhapatnam, Andhrapradesh, India;

Document details - A review on giant piezoelectric coefficient, materials and applications

Biointerface Research in Applied Chemistry

Volume 9, Issue 5, 15 October 2019, Pages 4205-4216

A review on giant piezoelectric coefficient, materials and applications(Review) (Open Access)

Ramesh, S., Ravinder, D., Naidu, K.C.B., Kumar, N.S., Srinivas, K., Baba Basha, D., Chandra Sekhar, B.

[a]Department of Physics, GITAM Deemed to be University, Bangalore, 562163, India
[b]Department of Physics, Osmania University, Hyderabad, Telangana 500007, India
[c]Department of Physics, JNTUA, Anantapuramu, A.P 515002, India

View additional affiliations

Abstract

The current work deals with the review of various piezoelectric materials and their piezoelectric coefficient (d_{33}) for probable piezoelectric device applications. In addition, the comprehensive analysis of the data of d_{33} obtained for distinct compounds is also made. Furthermore, the best suited material compositions are highlighted. © 2019 by the authors.

SciVal Topic Prominence

Topic: Ceramics | Ferroelectric Materials | Barium Titanates

Prominence percentile: 93.397

Author keywords

Electroceramics Ferroelectrics Piezoelectrics PZT Sensors

ISSN: 20695837
DOI: 10.33263/BRIAC95.205216
Source Type: Journal
Document Type: Review
Original language: English
Publisher: AMG Transcend Association

Naidu, K.C.B.; Department of Physics, GITAM Deemed to be University, Bangalore, India;

Cited by 16 documents

Alvarado, A.F.J. , Jacome, A.T. , de la Hidalga-Wade, F.J.

Tensors symmetry of crystalline nonlinear piezoelectric materials

(2022) Journal of Electroceramics

El-Masry, M.M. , Ramadan, R.

Enhancing the properties of PVDF/MFe2O4; (M: Co–Zn and Cu–Zn) nanocomposite for the piezoelectric optronic applications

(2022) Journal of Materials Science: Materials in Electronics

Veena, E. , Mallikarjuna, A. , Basha, D.B.

Structure, morphology, and ferroelectric behavior of Ba1-yZnyTiO3 (y = 0.2, 0.4, 0.6 & 0.8) nanoceramics

(2022) Digest Journal of Nanomaterials and Biostructures

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Document details - Extended optimization procedures for static list based task scheduling algorithms for hedcs

International Journal of Recent Technology and Engineering

Volume 8, Issue 2 Special Issue 11, September 2019, Pages 15-20

Extended optimization procedures for static list based task scheduling algorithms for hedcs(Article)(Open Access)

Vijaya Kumar, K., Laxmi Lydia, E., Amaranatha Reddy, P.

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[b]Vignan's Institute of Information Technology, India
[c]Department of Computer Science & Engineering, VFSTR University, Andhra Pradesh, India

Abstract

--No matter how powerful a single system is efficient at processing, there are still reasons to Control the power of multiple computational units. The Distributed computational system performs scheduling tasks achievedby the processors to minimize the execution time in any application.Despite the problem in determining NP-Complete the execution time in Scheduling isminimized.This paper identifies, a specific different algorithm Sorted Nodes in Leveled DAG Division (SNLDD)based on Task-Scheduling. The fundamental principle of this algorithm is to partition the data as a Directed Acyclic Graph (DAG) two stages and categorize each task of every stage in decreasing order depending upon the estimated size. Outcomes of the proposed algorithm are processed using correlative analysis and productive outcome with respect to HEFT with CPOP is implemented among existing algorithms. With respect to the comparative analysis of the outcomes, the performance of the suggested algorithm with SPOPimplementsimprovedexecution in the aspect of speedup, effectiveness, complexity, and excellence. Further, a new algorithmic strategy SPOP and CPOP has been developed and executed in the proposed SNLDD in HEFT. ©BEIESP.

SciVal Topic Prominence

Topic: Task Scheduling | Heterogeneous Computing | DAG

Prominence percentile: 90.911

Author keywords

---Task Scheduling | Critical Path on Processor | Heterogeneous Earliest Finish Time | Sorted Nodes in Leveled DAG Division | Superior Performance Optimization Procedure

ISSN: 22773878
Source Type: Journal
Original language: English

DOI: 10.35940/ijrte.B1003.0982S1119
Document Type: Article
Publisher: Blue Eyes Intelligence Engineering and Sciences Publication

Laxmi Lydia, E.; Vignan's Institute of Information Technology, India;

Document details - Low power aware standard cells using dual rail multi threshold null convention logic methodology

Microprocessors and Microsystems

Volume 68, July 2019, Pages 28-33

Low power aware standard cells using dual rail multi threshold null convention logic methodology(Article)

Suresh, M., Panda, A.K., Sudhakar, J.

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[b]Vignan's Institute of Engineering for Women, Visakhapatnam, Andhra Pradesh, India

Abstract

Over the last few decades, low power design has become unease in VLSI design, particularly for movable and high performance systems. Power dissipation is crucial for deep sub – micron technologies. There is a need for efficient leakage diminution techniques to minimize MOS leakage currents. Reduced leakage currents extend the life of all battery operated devices like mobiles, laptops. To reduce the power dissipation in digital VLSI design, we use different types of techniques. Compared to bipolar technology, CMOS technology provides low power dissipation. But, still this topology suffers with high leakage and dynamic power consumption. These hiccups can be overcome by making use of multi-threshold and asynchronous methodologies into the conventional CMOS technology. In this paper, we investigate the performance of various threshold templates and combinational circuits using various low power and asynchronous topologies. Latest topologies like Multi Threshold CMOS (MTNCL)and Multi Threshold Null Convention Logic (MTNCL)are compared with existing CMOS technology in terms of constrains like power dissipation, delay, slew rate and energy performance. © 2019 Elsevier B.V.

SciVal Topic Prominence

Topic: Asynchronous Circuits | Clock | Network on Chip

Prominence percentile: 76.726

Author keywords

CMOS | Low power | MTCMOS | MTNCL | Power dissipation | Threshold gates

Indexed keywords

Engineering controlled terms: CMOS integrated circuits | Computer circuits | Electric power supplies to apparatus | Energy dissipation | Integrated circuit design | Leakage currents | Low power electronics | Power management | Topology | VLSI circuits

Engineering uncontrolled terms: Battery operated devices | Dynamic power consumption | High performance systems | Low Power | MTCMOS | MTNCL | Null convention logic | Threshold gates

Engineering main heading: Electric losses

ISSN: 01419331
CODEN: MIMID
Source Type: Journal
Original language: English

DOI: 10.1016/j.micpro.2019.04.003
Document Type: Article
Publisher: Elsevier B.V.

Document details - Numerical modeling on radiative dissipative MHD flow of a chemically casson fluid over an exponentially inclined stretching surface

Mathematical Modelling of Engineering Problems

Volume 6, Issue 4, 2019, Pages 491-501

Numerical modeling on radiative dissipative MHD flow of a chemically casson fluid over an exponentially inclined stretching surface(Article)(Open Access)

Kumar, P.V., Ibrahim, S.M., Jyothsna, K.

[a]Department of Mathematics, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, 530045, India
[b]Department of Basic Sciences and Humanities, Vignan's Institute of Engineering for Women, Andhra Pradesh, 530049, India

Abstract

This article analyzes the magnetohydrodynamic Casson nanofluid flow over an exponentially inclined stretching permeable surface considering thermal radiation, suction/injection, heat source and chemical reaction in the flow region. Mathematical formulation is developed by assuming boundary layer approach. The leading differential equations are modelled by considering similarity transformations and solved using homotopy analysis method (HAM). Parametric behaviour of various physical constraints on velocity, temperature and concentration profiles is discussed through tables and graphs. Expressions of friction factor, rate of heat and mass transfer are evaluated graphically and also in tabular form for different values of parameters. The obtained results are in fabulous agreement with the existing results. Dual solutions are presented by considering suction and injection. © 2019 International Information and Engineering Technology Association.

SciVal Topic Prominence

Topic: Nanofluid | Stagnation Point Flow | MHD Flow

Prominence percentile: 99.917

Author keywords

Casson nanofluid | HAM | Inclined stretching sheet | Thermal radiation | Viscous dissipation

ISSN: 23690739
Source Type: Journal
Original language: English

DOI: 10.18280/mmep.060403
Document Type: Article
Publisher: International Information and Engineering Technology Association

Ibrahim, S.M.; Department of Mathematics, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, India;

Cited by 1 document

Rao, A.S. , Rao, P.P.B. , Ganteda, C.K.

Magnetohydrodynamic williamson fluid motion over an exponentially stretching sheet with chemically radiative heat source effects under suction/injection

(2020) Journal of Mathematical and Computational Science

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Document details - Text mining with hadoop:Enforcement of document clustering using non-negative matrix factorization KNMF

International Journal of Recent Technology and Engineering

Volume 8, Issue 1, 2019, Pages 3272-3280

Text mining with hadoop:Enforcement of document clustering using non-negative matrix factorization KNMF(Article)

Lydia, E.L., Kumar, K.V., Shankar, K.

[a]Department of Computer Science Engineering, Vignan's Institute of InformationTechnology(Autonomous), Visakhapatnam, India
[b]Department of Computer Science Engineering, Vignan's Institute of Engineering for Women, Andhra Pradesh, India
[c]School of Computing, Kalasalingam Academy of Research and Education, Krishnankoil, India

Abstract

Big data is recognized as information coming from many sources with an innovative analysis of information. The data in documents are mostly unstructured data such as text processing documents, audio, webpage, log results, etc. Problem Statement: To Order these files manually in folders, it is essential to know the entire contents of the files and the name of the files in order to process files,so that certain files are aligned as a lot. Another characteristic of this information is that it is prone to continuous change, hence clustering is required. Existing approach: uses Latent Semantic Indexing(LSI),Single value decomposition for unstructured document which was quickly filtered and viewed, but it is much harder to comprehend for computer machines. Proposed approach: A prototype is prepared by deducting redundancy structures to organize the data by similarity, NMF's updated rules along with k-means are proposed in this paper which is used to find the top terms in a respective cluster. For the purposes of exploration, anew data set called Newsgroup20 is considered. To accomplish this, preprocessing steps like Documents indexing, removal of stop words, Stemming. In specific, the words of the text document must be identified for the extraction of key features. The actual work was distributed in parallel with all documents in this project here, Apache Hadoop Map reduce was used for parallel programming. © BEIESP.

SciVal Topic Prominence

Topic: Word Processing | Term Weighting | Reuters

Prominence percentile: 93.042

Author keywords

Big Data | Hadoop | LSI | Newsgroup20 | NMF | SVD

ISSN: 22773878
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Blue Eyes Intelligence Engineering and Sciences Publication

Cited by 1 document

Krishnaraj, N. , Elhoseny, M. , Lydia, E.L.

An efficient radix trie-based semantic visual indexing model for large-scale image retrieval in cloud environment

(2021) Software - Practice and Experience

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Document details - Performance investigation of deep cryogenically treated and tempered carbide inserts in turning of Inconel 718

Defence S and T Technical Bulletin

Volume 12, Issue 2, 2019, Pages 202-217

Performance investigation of deep cryogenically treated and tempered carbide inserts in turning of Inconel 718(Article)

Allu, V.P., Dumpala, L.R., Shinagam, R.

[a]Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Kakinada (JNTUK), India
[b]Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, India
[c]Department of Mechanical Engineering, Gayatri Vidhya Parishad College of Engineering, India

Abstract

While nickel based alloys possess great chemical attraction and very low thermal conductivity, their machining is very complex. Shorter tool life with high wear is quite obvious during turning of these alloys, due to excessive friction and temperature. With the intention of increasing tool life, cryogenic treatment followed by tempering was carried out on multilayer coated inserts. The treated and tempered inserts were compared with the untreated ones for dry turning of Inconel 718 alloy. The outcome revealed that the tempered inserts outperformed the untreated and treated ones while investigating tool wear and cutting forces. In addition, the tempered inserts exhibited higher scratch resistance and lower chip tool contact distance. © 2019, Science and Technology Research Institute for Defence.

SciVal Topic Prominence

Topic: Surface Roughness | Carbide Tools | Inconel (Trademark)

Prominence percentile: 98.406

Author keywords

Chemical vapour deposition | Cryogenic treatment | Dry turning | Inconel 718 | Nickel based alloy

ISSN: 19856571
Source Type: Journal
Original language: English
Document Type: Article
Publisher: Science and Technology Research Institute for Defence

Allu, V.P.; Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Kakinada (JNTUK), India;

Document details - Modelling and statistical analysis of surface roughness by Taguchi and RSM techniques in hard turning of AISI 52100 steel with multilayer coated carbide insert

International Journal of Machining and Machinability of Materials

Volume 21, Issue 4, 2019, Pages 300-320

Modelling and statistical analysis of surface roughness by Taguchi and RSM techniques in hard turning of AISI 52100 steel with multilayer coated carbide insert(Article)

Pradeep, A.V., Lingaraju, D., Ramakrishna, S.

[a]Department of Mechanical Engineering, JNTUK, Kakinada, AP, India
[b]Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, AP, India
[c]Department of Mechanical Engineering, Gayatri Vidhya Parishad College of Engineering, Madhurawada, Visakhapatnam, AP, India

Abstract

The statistical data of surface roughness (Ra, Rz) associated with the machining parameters (cutting speed, tool nose radius, depth of cut and feed) during turning of AISI 52100 steel using multilayer coated carbide inserts was experimentally modelled in this study. Analysis of variance (ANOVA) was employed to ascertain the significance of the cutting parameters whereas response surface methodology (RSM) depending on Taguchi design of experiments was employed to optimise the factors influencing surface roughness. The models established for approximation of Ra and Rz were 91.02% and 92.42% reliable. The most influencing parameter for Ra was tool nose radius followed by feed with contribution of 33.83% and 32.50% respectively, while the contribution of tool nose radius and feed rate for Rz was 39.21% and 33.46%. The optimum combination obtained through multi-response optimisation for minimum roughness was 70 m/min cutting speed, 0.05mm/rev feed, 0.1mm depth of cut and nose radius of 1.2 mm.

SciVal Topic Prominence

Topic: Surface Roughness | Carbide Tools | Inconel (Trademark)

Prominence percentile: 98.406

Author keywords

AISI 52100 | Analysis of variance | ANOVA | Multilayer coated carbide | Response surface methodology | RSM | Surface roughness | Variance analysis

Indexed keywords

Engineering controlled terms: Carbides | Cutting | Cutting tools | Design of experiments | Multilayers | Surface properties | Surface roughness | Turning

Engineering uncontrolled terms: AISI 52100 | Coated carbide insert | Coated carbides | Influencing parameters | Machining parameters | Response surface methodology | Taguchi design of experiment | Variance analysis

Engineering main heading: Analysis of variance (ANOVA)

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - An experimental investigation of control parameters in five-axis hybrid parallel kinematic machine in milling of aluminium 6061-T3

International Journal of Machining and Machinability of Materials

Volume 21, Issue 4, 2019, Pages 264-278

An experimental investigation of control parameters in five-axis hybrid parallel kinematic machine in milling of aluminium 6061-T3(Article)

Suryam, L.V., Balakrishna, B.

[a]Vignan's Institute of Engineering for Women, Visakhapatnam, AP, India
[b]Department of Mechanical Engineering, JNTUK, Kakinada, AP, India

Abstract

Surface roughness is an important factor in predicting performance of any machining operation. The experiment has been performed in milling a V-shaped pocket on aluminium 6061-T3 by Exechon parallel kinematic machine using carbide tool. Three different segmented surfaces are selected on V-block and the effect of control parameters were investigated over it. In this research, Taguchi method is used to identify the optimal combination of spindle speed, feed, and depth of cut. To analyse the effect of the control parameters for fine surface finish, Taguchi L9 orthogonal array, signal-to-noise (S/N) ratio and analysis of variance (ANOVA) are employed. Control parameters such as high spindle speed, low feed rate and low depth of cut plays a decisive role in the result of surface roughness. Also, the obtained results from PKM were compared to that of CNC machining, and the surface topologies were examined under optical and scanning electron microscope. Copyright © 2019 Inderscience Enterprises Ltd.

SciVal Topic Prominence

Topic: Surface Roughness | Carbide Tools | Inconel (Trademark)

Prominence percentile: 98.406

Author keywords

ANOVA | Exechon HPKM XT 700S | S/N ratio | Surface roughness | Taguchi method

Indexed keywords

Engineering controlled terms: Aluminum | Control system analysis | Flexible manufacturing systems | Kinematics | Milling (machining) | Scanning electron microscopy | Signal to noise ratio | Surface roughness | Taguchi methods

Engineering uncontrolled terms: Exechon | Experimental investigations | L9 orthogonal arrays | Machining operations | Optimal combination | Parallel kinematic machines | S/N ratio | Signal to noise (S/N) ratios

Engineering main heading: Analysis of variance (ANOVA)

ISSN: 17485711
Source Type: Journal
Original language: English

DOI: 10.1504/IJMMM.2019.101485
Document Type: Article
Publisher: Inderscience Publishers

Cited by 2 documents

Duong-Quoc, K. , Le-Thi-Thu, T. , Pham-Thanh, L.
Controlling Hybrid Machine Tools concerning Error Compensation of Chain Elements
(2022) Journal of Robotics

Leo Princely, F. , Senthil, P. , Palanisamy, A.
Experimental investigation and optimisation of robotic deburring parameters using desirability analysis
(2020) International Journal of Mechatronics and Automation

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Document details - Equal-channel angular extrusion of Al 5083 alloy with copper shielding

Emerging Materials Research

Volume 7, Issue 4, 9 November 2018, Pages 227-232

Equal-channel angular extrusion of Al 5083 alloy with copper shielding(Article)

Varadala, A.B., Gurugubelli, S.N., Bandaru, S.

[a]Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, India
[b]Department of Metallurgical Engineering, Jawaharlal Nehru Technological University, Kakinada-University College of Engineering Vizianagaram, Vizianagaram, India
[c]Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India

Abstract

The microstructural homogeneity, hardness and tensile strength of aluminium alloy 5083, with and without copper shielding (CS), processed by equal-channel angular extrusion (ECAE) are investigated in this work. The two opposite longitudinal faces of the rectangular billets are shielded with copper sheets of various thicknesses (1·0, 1·5, 2·0 and 2·5 mm) and ECAE'd at room temperature in route A (no rotation of billet) up to four times. The required extrusion load is drastically reduced due to the smaller coefficient of friction between the CS and channels of the steel die. The shielded copper reduces the effect of the dead metal zone and microcracks and improves strain uniformity in the extruded alloy. The hardness and tensile strength of the extruded alloy with CS are increased extensively due to newly formed submicron-sized grains in the homogeneous structure. Also, the ductility of ECAE'd alloy with CS is higher compared to that of the alloy extruded without shielding. It is noticed that the increase in the thickness of CS does not have a noteworthy effect on the structural and mechanical behaviour of the extruded alloy.

SciVal Topic Prominence

Topic: Equal Channel Angular Pressing | Superplasticity | Plastic Deformation

Prominence percentile: 98.990

Indexed keywords

Engineering controlled terms: Billets (metal bars) | Copper | Extrusion | Friction | Hardness | Microcracks | Shielding | Tensile strength

Engineering uncontrolled terms: Coefficient of frictions | Dead metal zone | Equal channel angular extrusion | Extruded alloys | Homogeneous structure | Mechanical behaviour | Microstructural homogeneity | Submicron-sized grains

Engineering main heading: Aluminum alloys

ISSN: 20460147
Source Type: Journal
Original language: English

DOI: 10.1680/jemmr.18.00043
Document Type: Article
Publisher: ICE Publishing

Cited by 2 documents

Sathi, B.R. , Gurugubelli, S.N. , Babu, H.
TG and DSC Analyses of Equi-Channel Angular Processed Red Mud Particle Reinforced 5083 Aluminum Alloy Matrix Composites Synthesized by Stir Casting
(2020) Transactions of the Indian Institute of Metals

Ravindra, N.M.
Editorial
(2018) Emerging Materials Research

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Document details - A novel approach over inverse kinematic analysis of 5-axis hybrid parallel manipulator for contour trajectory

International Journal of Mechanical Engineering and Technology

Volume 9, Issue 11, November 2018, Pages 198-210

A novel approach over inverse kinematic analysis of 5-axis hybrid parallel manipulator for contour trajectory(Article)

Suryam, L.V., Pradeep, A.V., Satya Prasad, S.V., Vahini, K., Sai ratnakar, Y.

[a]Department of mechanical engineering, Vignan's institute of engineering for women, Visakhapatnam, AP, India
[b]Department of mechanical engineering, Welfare Institute of science,technology and Management, Visakhapatnam, AP, India

Abstract

In the recent past, the PKM technology was brought to the next level by invention of Hybrid Parallel Kinematic Machines (HPKMs) because both serial and Parallel Kinematic Machine features are incorporated in these machines.Kinematics and dynamics play a crucial role in functioning of any parallel kinematic machine. The Inverse kinematic analysis is tedious for finding the velocity and acceleration of legs in PKMs having more than three Degree of freedom (DOF). In this paper, 5-axis Hybrid parallel kinematic machine with hemisphere workspace has been modeled and assembled in CATIA. The inverse kinematic analysis of PKM was carried out in digital mockup unit (DMU). The variations in velocities and accelerations of all the three legs and joint angles were found along work plane axes at desired feed rate. On the other hand, the regression equations were generated for velocity and acceleration of each leg, joint angles with respect to position and time, while the tool travels along the v-shape contour trajectory. © IAEME Publication

SciVal Topic Prominence

Topic: Parallel Manipulator | Stewart Platform | Biomechanics

Prominence percentile: 97.733

Author keywords

5-Axis HPKM | Contour trajectory | DMU | Inverse Kinematics

ISSN: 09766340
Source Type: Journal
Original language: English

Document Type: Article
Publisher: IAEME Publication

Document details - Microstructurural characterization of 6063 aluminium alloy nano-composites

International Journal of Mechanical and Production Engineering Research and Development

Volume 8, Issue 2, 30 April 2018, Article number IJMPERDAPR201897, Pages 851-856

Microstructurural characterization of 6063 aluminium alloy nano-composites(Article)(Open Access)

Satyanarayana, K.R., Surendra Babu, B., Ramesh Chandra, B., Nagendrababu, M., Swami Naidu, G.

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[b]Department of Mechanical Engineering, JNTUHCOE, India
[c]Department of Mechanical Engineering, VIEW, India

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Abstract

Microstructural characterization of Al6063 Nanocomposites plays a vital role in the field of Materials Engineering. Many of the earlier researchers showed that the evolution of Al6063 stabilized the application in wide fields of engineering and sciences. The present research has focused to probe the Al6063nano composite using X-ray diffraction (XRD), Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy Photogrammetry (SEM). Compositions of Al6063, Al6063 with 0.5 wt% γ- Al_2O_3, 1 wt% γ- Al_2O_3, 2 wt% γ- Al_2O_3 and 3 wt% γ- Al_2O_3 were prepared and investigated for Microstructural Characterization. In XRD, SEM and TEM the nanopowder particles forms apparently bonds and their crystallographic structures are clearly identified. Instead of chemical reactions, nanoparticles implicated the improvements in higher fracture toughness and shown in Fractograph SEM of Al 6063 + 2 wt% γ-Al_2O_3 than the other compositions. In Fractograph SEM of Al 6063 + 3 wt% γ-Al_2O_3, the nanoparticles were widely spread and showing higher fracture toughness. © TJPRC Pvt. Ltd.

SciVal Topic Prominence

Topic: Metal Matrix Composites | Powder Metallurgy | Aluminum

Prominence percentile: 99.285

Author keywords

Material characterization | Material fabrication | Material processing | Materials science | Microscopy | Nanoscale materials | Nanostructures | Optical microscopy | Spectroscopy & transmission electron microscopy

ISSN: 22496890
Source Type: Journal
Original language: English

DOI: 10.24247/ijmperdapr201897
Document Type: Article
Publisher: Transstellar Journal Publications and Research Consultancy Private Limited (TJPRC)

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - Existence of symmetric positive solutions for Lidstone type integral boundary value problems

Turkish World Mathematical Society Journal of Applied and Engineering Mathematics

Volume 8, Issue 1, 2018, Pages 295-305

Existence of symmetric positive solutions for Lidstone type integral boundary value problems(Article)

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[b]Department of Applied Mathematics, Andhra University, Visakhapatnam, 530 003, India
[c]Department of Mathematics, VIEW, Visakhapatnam, 530 049, India

Abstract

This paper establishes the existence of even number of symmetric positive solutions for the even order differential equation $(-1)^n u^{(2n)}(t) = f(t, u(t))$, $t \in (0, 1)$, satisfying Lidstone type integral boundary conditions of the form $u^{(2i)}(0) = u^{(2i)}(1) = \int_0^1 a_{i+1}(x)u^{(2i)}(x)dx$, for $0 \le i \le n - 1$, where $n \ge 1$; by applying Avery[Henderson fixed point theorem. © Işik University, Department of Mathematics, 2018.

SciVal Topic Prominence

Topic: Positive Solution | Integral Boundary Conditions | Three-Point Boundary Value Problem

Prominence percentile: 84.884

Author keywords

Cone | fixed point theorem | Green's function | Integral boundary conditions | Positive solution

ISSN: 21461147
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Isik University

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Language

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Cited by 1 document

Kanakayya, N. , Namburi, S. , Prasad, K.R.
EXISTENCE AND NONEXISTENCE RESULTS FOR HIGHER ORDER DIFFERENTIAL EQUATIONS WITH NON-HOMOGENEOUS INTEGRAL BOUNDARY CONDITIONS

(2021) Poincare Journal of Analysis and Applications

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Document details - A novel architecture for the realisation of IoT-enabled ecg signal quality assessment using wavelet decomposition for baseline wander removal

Defence S and T Technical Bulletin

Volume 11, Issue 2, 2018, Pages 192-201

A novel architecture for the realisation of IoT-enabled ecg signal quality assessment using wavelet decomposition for baseline wander removal(Article)

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[b]Department of Electronics and Communication Engineering, GITAM Institute of Technology, India

Abstract

In this paper, a technique to remove baseline wander (BW) from electrocardiogram (ECG) signals based on wavelet decomposition and also a novel signal quality assessment-aware Internet of Things (IoT)- enabled ECG telemetry system for continuous cardiac health monitoring applications are proposed. The main objectives of this paper are to design and develop a ECG signal quality assessment (SQA) method for automatically classifying the acquired ECG signal into GOOD or BAD, and real-time implementation of the proposed IoT-enabled ECG framework using ECG signals taken from the Massachusetts Institute of Technology-Beth Israel Hospital Arrhythmia (MITBIHA) database. The ECG signals are preprocessed using notch filter at 50Hz, with wavelet decomposition used to remove BW noise that is present in the ECG signal. The processed ECG signal performance is mathematically calculated in terms of sensitivity, correlation criterion and signal-to-noise ratio. The experimental results demonstrated that the proposed ECG SQA performs well in terms of sensitivity, correlation and signal-to-noise ratio. © Science & Technology Research Institute for Defence (STRIDE), 2018.

SciVal Topic Prominence

Topic: Alarm Monitor | Alarm | Warning Systems

Prominence percentile: 91.762

Author keywords

Baseline wander (BW) | Electrocardiogram (ECG) | Internet of Things (IoT) | Signal quality assessment (SQA) | Tele monitoring

ISSN: 19856571
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Science and Technology Research Institute for Defence

Chukka, R.B.; Department of Electronics and Communication Engineering, Vignan's Institute of Engineering for Women, India;

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Chukka, R.B. , Kumar, C.S.

Analysis and comparison of ECG signal quality assessments methods

(2020) Advances in Intelligent Systems and Computing

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Document details - Application of response surface methodology in evaluating the performance of conventional, wiper, cryogenically treated and coated (TiN, TiAlN and TiCN) carbide inserts in turning of AISI 52100 steel

International Journal of Agile Systems and Management

Volume 11, Issue 4, 2018, Pages 340-363

Application of response surface methodology in evaluating the performance of conventional, wiper, cryogenically treated and coated (TiN, TiAlN and TiCN) carbide inserts in turning of AISI 52100 steel(Article)

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[a]Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Kakinada, AP, India
[b]Department of Mechanical Engineering, Vignan's Institute of Engineering for Women, Duvvada, Visakhapatnam, AP, India
[c]Mechanical Engineering, Gayatri Vidya Parishad College of Engineering, Madhurawada, Visakhapatnam, AP, India

Abstract

The performance of untreated/uncoated, wiper, deep cryogenically treated, and coated (TiN, TiAlN and TiCN) carbide inserts using response surface methodology in turning of AISI 52100 steel, was evaluated in this study. Type of insert, cutting speed, feed and depth of cut were the factors investigated. The response variables analysed were tool flank wear and surface roughness. Basing on RSM central composite design, an experimental plan (L18 OA) was developed. The ANOVA results signify that the suggested mathematical models could adequately elucidate the performance indicators within the range. The generated regression equation reveals that the flank wear is mainly influenced by the type of insert followed by cutting speed. The surface roughness was majorly affected by the type of insert followed by feed rate. Machined surface topographies and tool flank wear mechanism were analysed by examining the SEM micrographs. RSM multi-response optimisation was executed so as to optimise the turning parameters. Copyright © 2018 Inderscience Enterprises Ltd.

SciVal Topic Prominence

Topic: Surface Roughness | Carbide Tools | Inconel (Trademark)

Prominence percentile: 98.406

Author keywords

Coated carbide | Cryogenic treatment | RSM | Surface roughness | Tool wear | Wiper insert

ISSN: 17419174
Source Type: Journal
Original language: English

DOI: 10.1504/IJASM.2018.095513
Document Type: Article
Publisher: Inderscience Publishers

Pradeep, A.V.; Department of Mechanical Engineering, Jawaharlal Nehru Technological University, Kakinada, AP, India;

Document details - Personalized privacy preserving incremental data dissemination through optimal generalization

Journal of Engineering and Applied Sciences

Volume 13, Issue 11, 2018, Pages 4205-4216

Personalized privacy preserving incremental data dissemination through optimal generalization(Article)

Reddy, S.R.P., Raju, K.V.S.V.N., Valli Kumari, V.

[a]Department of Computer Science and Engineering, Vignan's of Institute of Engineering for Women, Visakhapatnam, Andhra Pradesh, India
[b]GVP College for Degree and PG Courses School of Engineering, Rushikonda, Visakhapatnam, Andhra Pradesh, India
[c]Department of Computer Science and Systems Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India

Abstract

A need to unveil health information for several reasons such as for health services, payment in case of insurances, health care operations, research and so on is on high demand. Personal information is to be disseminated without revealing the individual's identity in all these circumstances. Tremendous work has been carried out to provide privacy for publishing static data. Existing anonymization methods such as k-anonymity and l-diversity models have led to a number of valuable privacy-protecting techniques for static data. This very postulation implies a substantial limitation as in many applications data collection is rather a persistent process. In places where data keeps on increasing on a daily basis, the current techniques are inadequate and suffer from poor data quality and/or vulnerable to inferences. A very diminutive work has been carried out in this direction and personalized privacy for incremental datasets has not been studied. In this study, we present a solution that presents incremental data dissemination in the context of personalized privacy using optimal generalization. An algorithm in incremental mode to handle personalized privacy issues with maximum diversity and minimum anonymity is proposed. The experiments on continuously growing real world and synthetic datasets show that the proposed scheme is efficient and produces publishable data of high utility.

SciVal Topic Prominence

Topic: Anonymization | K-Anonymity | Big Data

Prominence percentile: 94.990

Author keywords

High sensitive attribute | Incremental data dissemination | India | Optimal generalization | Personalization | Privacy

ISSN: 1816949X
Source Type: Journal
Original language: English
DOI: 10.3923/jeasci.2018.4205.4216
Document Type: Article
Publisher: Medwell Journals

Reddy, S.R.P.; Department of Computer Science and Engineering, Vignan's of Institute of Engineering for Women, Visakhapatnam, Andhra Pradesh, India

Document details - Land cover classification using landsat-8 optical data and supervised classifiers

International Journal of Engineering and Technology(UAE)

Volume 7, Issue 2, 2018, Pages 101-104

Land cover classification using landsat-8 optical data and supervised classifiers(Article)(Open Access)

Ramana Rao, K.V., Rajesh Kumar, P.

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Abstract

Land use and land cover information of an area has got importance in various aspects mainly because of various development activities that are taking place in every part of the world. Various satellite sensors are providing the required data collected by remote sensing techniques in the form of images using which the land use land cover information can be analyzed. Constistency of Landsat satellite is illustrated with two time periods such as Operational Land Imager (OLI) of 2013 and consecutive 2014 procured by earth explorer with quantified changes for the same period in visakhapatnam of hudhud cyclone. Since this city is consisting of mainly urban, vegetation, few water bodies, some area of agriculture and barren,five classes have been chosen from the study area. The results indicate that due to the hudhud event some changes took place. vegetation and built-up land have been increased by An increase of 19.1% (6.3 km^2) and 11% (5.36 km^2) has been observed in the case of vegetation and built up area where as a decrease of 1.2% (4.06 km^2), 6.1% (1.70 km^2) and 1.2% (0.72 km^2) has been observed in the case of agriculture, barren land, and water body respectively. With the help of available satellite imagery belonging to the same area and of different time periods along with the change detection techniques landscape dynamics have been analyzed. Using various classification algorithms along with the data available from the satellite sensor the land use and land cover classification information of the study area has been obtained. The maximum likelihood algorithm provided better results compared to other classification techniques and the accuracy achieved with this algorithm is 99.930% (overall accuracy) and 0.999 (Kappa coefficient). © 2017 Science Publishing Corporation Inc.

SciVal Topic Prominence

Topic: Change Detection | Remote Sensing Image | Synthetic Aperture Radar

Prominence percentile: 97.076

Author keywords

Land cover classification | LANDSAT-8 | Maximum Likelihood | Optical data

ISSN: 2227524X
Source Type: Journal
Original language: English
DOI: 10.14419/ijet.v7i2.17.11567
Document Type: Article
Publisher: Science Publishing Corporation Inc

Ramana Rao, K.V.; Department of ECE, VIEW, Visakhapatnam, Andhra Pradesh, India;

Document details - Personalized anonymization for patient privacy in a mobile health world

Journal of Advanced Research in Dynamical and Control Systems

Volume 9, Issue 1, October 2017, Pages 362-377

Personalized anonymization for patient privacy in a mobile health world(Article)

Ram Prasad Reddy, S., Valli Kumari, V., Raju, K.

[a]Department of Computer Science & Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, Andhra Pradesh, India
[b]Department of Computer Science & Systems Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India
[c]Research & Development, ANITS, Visakhapatnam, Andhra Pradesh, India

Abstract

The twenty first century has registered a significant role of telecommunications. Prominently, Mobile technology has shown strong growth in the past decade, reaching out every corner of the globe. It is now an important tool in monitoring global health programs. The Medical field has surplus advanced services that are limited to certain portions of the world. Mobile technology can be collaborated with medical services on a higher pace for focusing on people living in countries with a marginalized income. Today, Mobile health policies are being used to overcome access factors like geographic distance to services, social marginalization, inadequate skilled medical personnel, lack of financial resources etc.. According to a report by World Health Organization in 2011, governments cite issues related to data privacy and security and the protection of individual health information as two of the most significant hurdles for the expansion of Mobile health. Protecting personal health information that is collected and transmitted over mobile devices is essential to bringing Mobile health to scale up and provide a mature foundation for its continued growth. This paper attempts to address patient privacy in a mobile world using personalized k-anonymity. Experiments were conducted on synthetic datasets to verify our method and promising results were obtained.

SciVal Topic Prominence

Topic: Anonymization | K-Anonymity | Big Data

Prominence percentile: 94.990

Author keywords

Anonymity | Data privacy | Location enlargement | Mobile health | Taxonomy

ISSN: 1943023X
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Institute of Advanced Scientific Research, Inc.

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K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Document details - Vibrational and electronic properties of 4′-halomethyl-2-biphenylcarbonitrile compounds

Journal of Molecular Structure

Volume 1144, 15 September 2017, Pages 313-323

Vibrational and electronic properties of 4′-halomethyl-2-biphenylcarbonitrile compounds(Article)(Open Access)

Shankar Rao, Y.B., Veeraiah, V., Sundius, T., Chaitanya, K.

[a]Department of Physics, Andhra University, Visakhapatnam, India
[b]Department of Physics, Anil Neerukonda Institute of Technology & Sciences, Bheemunipatnam, Visakhapatnam, India
[c]Department of Physics, University of Helsinki, Helsinki, Finland

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Abstract

In this paper we studied the structural, vibrational and electronic properties of the 4′-bromomethyl-2-biphenylcarbonitrile (BMBP) 4′-chloromethyl-2-biphenylcarbonitrile (CMBP) and 4′-fluoromethyl-2-biphenylcarbonitrile (FMBP) compounds using experimental and theoretical methods. The FT-IR and FT-Raman spectra of BMBP in solid phase were recorded in the region 4000–400 cm^{-1} and 4000–50 cm^{-1}, respectively. The UV absorption spectrum of BMBP was recorded in dichloromethane and methanol solvents in the range 180–400 nm. The theoretical spectral properties of title compounds were simulated using density functional theory (DFT) and time dependent DFT methods. Scaling of the vibrational frequencies was carried out with the MOLVIB program using multiple scaling factors and assignment to each vibrational frequency was consigned on the basis of potential energy distribution (PED). The electronic spectrum of BMBP in two different solvents (methanol and dichloromethane), calculated at the CAM-B3LYP/6-31G(d,p) level compares well with the experimental data and validates the current method for predicting the absorption spectrum of CMBP and FMBP. Furthermore, the electronic, nonlinear optical and thermodynamics properties of the three compounds were discussed in detailed. © 2017 Elsevier B.V.

SciVal Topic Prominence

Topic: Oligomer | Conjugated Polymers | Electronic Properties

Prominence percentile: 10.865

Author keywords

DFT | Electronic spectra | MOLVIB | TDDFT | Vibrational spectra

Indexed keywords

Engineering controlled terms: Absorption spectroscopy | Dichloromethane | Electromagnetic wave absorption | Electronic properties | Methanol | Molecular vibrations | Organic solvents | Potential energy | Thermodynamics | Vibrational spectra

Engineering uncontrolled terms: Electronic spectrum | FTIR and FT-Raman spectra | MOLVIB | Potential energy distribution | TDDFT | Theoretical methods | Thermodynamics property | UV absorption spectrum

Engineering main heading: Density functional theory

Document details - Enhanced magnetic and magnetoelectric properties of Mn doped multiferroic ceramics

Ceramics International

Volume 43, Issue 12, 15 August 2017, Pages 9272-9275

Enhanced magnetic and magnetoelectric properties of Mn doped multiferroic ceramics(Article)

Dhanalakshmi, B., Kollu, P., Sekhar, B.C., Parvatheeswara Rao, B., Rao, P.S.V.S.

[a]Vignan's Institute of Information Technology, Visakhapatnam, 530049, India
[b]CASEST, School of Physics, University of Hyderabad, Hyderabad, 500046, India
[c]Newton Alumnus Researcher - The Royal Society London, Thin Film Magnetism group, Cavendish Laboratory, Department of Physics, University of Cambridge, Cambridge, CB3 0HE, United Kingdom

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Abstract

Single phase multiferroics of $BiFeO_3$ (BFO) and Mn doped $Bi_{0.95}Mn_{0.05}FeO_3$ (BMFO), and composite multiferroic systems of $BiFeO_3$-$Ni_{0.5}Zn_{0.5}Fe_2O_4$ (BFO-NZFO) and Mn doped $Bi_{0.95}Mn_{0.05}FeO_3$-$Ni_{0.5}Zn_{0.5}Fe_2O_4$ (BMFO-NZFO) have been prepared by using sol-gel autocombustion and solid state methods. Rietveld analysis on the BFO and BMFO samples reveals rhombohedrally distorted single phase R3c perovskite structures while that of the multi-phase composites exhibit both spinel (for the NZFO) and perovskite phases. Scanning electron micrographs of the samples show uniformly dispersed fine grained microstructures with indications of decreased grain size for the Mn doped samples. Polarization-electric field hysteresis (P-E) loops on the samples exhibit spontaneous ferroelectric polarizations with specific enhancements in the remnant polarization by the Mn doping either in the single phase BMFO or in the multi-phase BMFO-NZFO composite. Room temperature magnetic hysteresis (M-H) loop measurements on the samples indicate that the doping of Mn in bismuth sites in the BFO has produced a considerable improvement in the magnetization, and the Mn doped BMFO-NZFO composite has shown further improvement in its value compared to that of the undoped BFO-NZFO composite. Thus, it can be inferred from the above that the Mn doping in single phase/composite $BiFeO_3$ based multiferroic ceramics is capable of enhancing both the ferroelectric and ferromagnetic properties and thereby the magnetoelectric (M-E) coupling as evident from the obtained M-E curves. © 2017 Elsevier Ltd and Techna Group S.r.l.

SciVal Topic Prominence

Topic: Ferroelectric Materials | Magnetic Properties | Dromaiidae

Prominence percentile: 99.022

Author keywords

Magnetic hysteresis loops | Magnetoelectric coupling | Multiferroics | Rietveld analysis | Sol-gel autocombustion

Indexed keywords

Engineering controlled terms: Bismuth compounds | Ceramic materials | Electric fields | Ferroelectric ceramics | Ferroelectricity | Iron compounds | Magnetic hysteresis | Magnetic materials | Magnetism | Perovskite | Polarization | Rietveld analysis | Scanning electron microscopy | Sol-gel process | Sol-gels

Engineering uncontrolled terms: Electric field hysteresis | Ferroelectric polarization | Fine-grained microstructure | Magnetoelectric couplings | Magnetoelectric properties | Multiferroics | Scanning electron micrographs | Sol-gel auto-combustion

Cited by 32 documents

Sreekanth, K. , Dhanalakshmi, B. , Madhavaprasad, D.
Enhanced dielectric and magnetic properties of Cr / Co and Mn co-doped single phase multiferroic bismuth ferrite nanoparticles
(2022) Journal of the Indian Chemical Society

Kaiyum, A. , Hossain, M.A. , Liba, S.I.
Impedance spectroscopy and conduction mechanism of xNi.50Zn.... x)Bi0.9La... composites
(2022) Solid State Communications

K, S. , B, D. , Madhavaprasad, D.
Typical superparamagnetism with improved electrical properties of nano modified bismuth ferrite multiferroic composites
(2022) Journal of the Indian Chemical Society

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Document details - Severity based contingency management approach: An Indian scenario

Journal of Engineering Science and Technology

Volume 12, Issue 7, July 2017, Pages 1833-1844

Severity based contingency management approach: An Indian scenario(Article)

Mishra, A., Nagesh Kumar, G.V.

[a]Department of Electrical and Electronics Engineering, Vignan's Institute of Engineering for Women, Visakhapatnam, Andhra Pradesh 530046, India
[b]Department of Electrical and Electronics Engineering, Vignan's Institute of Information Technology, Visakhapatnam, Andhra Pradesh 530046, India

Abstract

In today's electronic world, secured operation of the electric power system is one of the foremost requirements. Contingency analysis and management thus becomes the basic requirement of system analysis. In this paper, the contingency study has been done on a heavily loaded practical power system in an Indian scenario. A Composite Severity Index (CSI) has been proposed for the determination of critical line. The contingency analysis has been done using Rapid Contingency Ranking Technique (RCRT). By this method the number of lines on which the contingency analysis is to be performed is greatly reduced. Thereafter, an Interline Power Flow Controller (IPFC) has been placed in the system on the basis of CSI for improvement of the system situation post-contingency. An IPFC has been found to be very effective in the improvement of system condition of the heavily loaded Indian system. © School of Engineering, Taylor's University.

SciVal Topic Prominence

Topic: Flexible AC Transmission System | Thyristors | Controller

Prominence percentile: 89.450

Author keywords

Composite index | Contingency | Fast voltage stability index | Interline power flow Controller | Line utilization factor | Optimal placement

ISSN: 18234690
Source Type: Journal
Original language: English

Document Type: Article
Publisher: Taylor's University

Nagesh Kumar, G.V.; Department of Electrical and Electronics Engineering, Vignan's Institute of Information Technology, Visakhapatnam, Andhra Pradesh, India;

Document details - IBFWA: Integrated Bloom Filter in Watchdog Algorithm for hybrid black hole attack detection in MANET

Information Security Journal

Volume 26, Issue 1, 2 January 2017, Pages 49-60

IBFWA: Integrated Bloom Filter in Watchdog Algorithm for hybrid black hole attack detection in MANET(Article)

Kollati, V.K., Somasundaram, K.

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[b]Department of Computer Science and Engineering & IT, Aarupadai Veedu Institute of Technology, Paiyanoor, Chennai, Tamilnadu, India

Abstract

In recent days, the Mobile Ad-hoc Network (MANET) has gained more attention and popularity due to its dynamic nature. However, it is highly vulnerable to attacks due to its wireless nature and lack of central authority. This affects the overall performance of the network. To solve this problem, the Watchdog protocol was developed for attack detection. However, if it receives a false report from a misbehaving node, it fails to detect the attack. To overcome this problem, the Integrated Bloom Filter with Watchdog Algorithm (IBFWA) is proposed in this article to avoid packet loss. Here, the Certificate Authority (CA) validates the node through the process of key generation. Then, it checks whether the node is normal or attacker; if it is a black hole node, it will be blocked and communication through this node is avoided. If a node is compromised and revoked as a normal node, it is added to the network and communication through the node is enabled. The experimental results evaluate the performance of the proposed attack detection system in terms of lower node outage, residual energy, end-to-end delay, high detection probability, throughput, packet transfer rate and packet delivery ratio. © 2017 Taylor & Francis Group, LLC.

SciVal Topic Prominence

Topic: Mobile Ad Hoc Networks | Trust Management | Attack

Prominence percentile: 96.688

Author keywords

Black hole attack | Bloomfilter | Integrated Bloom Filter with Watchdog Algorithm (IBFWA) | Mobile Ad-hoc Network (MANET) | Watchdog

Indexed keywords

Engineering controlled terms: Bandpass filters | Data structures | Gravitation | Mobile telecommunication systems | Packet networks | Stars

Engineering uncontrolled terms: Attack detection | Black hole attack | Bloom filters | Certificate authority | High detection probability | Misbehaving nodes | Packet delivery ratio | Watchdog

Engineering main heading: Mobile ad hoc networks

ISSN: 19393555
Source Type: Journal

DOI: 10.1080/19393555.2016.1274805
Document Type: Article

Document details - Two phase active counter mechanism embedded with particle swarm optimization technique for segmentation of bio-medical images

Journal of Advanced Research in Dynamical and Control Systems

Volume 9, Issue 6, 2017, Pages 232-242

Two phase active counter mechanism embedded with particle swarm optimization technique for segmentation of bio-medical images(Article)

Jyothula, H., Rao, S.K., Vallikumari, V.

[a]Department of Computer Science & Engineering, Vignan's Institute of engineering for Women, Visakhapatnam, India
[b]Department of Electronics & Communications Engineering, K L University, Vijayawada, India
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Abstract

In this paper, we recommend a progressed region-based active contour model in An variational level situated detailing What's more streamlining system. We define an vitality utilitarian with a nearby force fitting term, which induces An neighbourhood power with Lure the shape and stops it In object boundaries, What's more an assistant worldwide force level fitting term, which drives the movement of the shape a wide margin far from article limits. Therefore, the blending from claiming these two powers considers adaptable introduction of the forms. This vitality will be then consolidated under a level situated plan for a level situated regularization haul that is essential for exact calculation in the comparing level situated technique. Those recommended model may be initial exhibited as a two-phase level situated formulation, et cetera enlarged on a multi-phase detailing. Molecule swarm streamlining for minimization about vitality fill in. Numerical tests looking into a combination from claiming images indicate that the recommended figuring is hearty, stable, Also accomplishes immense enhancements once precision Furthermore proficiency again those state from claiming expressions of the mankind's background.

SciVal Topic Prominence

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