Loknete Ma. Hanmantrao Patil Charitable trust, Vita

Adarsh institute of Technology & Research Centre

Gat No - 421 At Post - Khambale (Bha.) Khanapur Dist - Sangli

415311, Vita,Maharashtra,415311

AITRC

Criteria 7: Institutional Values& Best Practices

Particulars	7.3.1: Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words.

LOKNETE HON.HANMANTRAO PATIL CHARITABLE TRUST'S VITA
ADARSH INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE
(NAAC Accredited Institute)
A/P: Khambale(Bha) Near Karve MIDC, Vita **Tal:** Khanapur **Dist:** Sangli.415311
Phone & Fax: (02347) 229021 **Email:** aitrc@agiv.edu.in **Web :** www.aitrcvita.edu.in
Hon.Adv.Sadashivrao H Patil   **Hon.Adv.Vaibhav S Patil**
Ex.MLA. Founder   President

Performance of the Institution in Extension Activities:

1. Community Empowerment: NSS Extension activities often empower the neighbourhood community by addressing specific local needs. This empowerment can be seen through initiatives such as skill development workshops, health camps, or educational programs, which enable community members to lead better lives and become self-sufficient.

2. Environmental Awareness: Many NSS activities focus on environmental conservation and sustainability. Through tree planting, waste management campaigns, and clean-up drives, students not only improve the environment but also become more aware of ecological issues and their role in preserving nature.

3. Health and Hygiene Education: NSS often involves health awareness campaigns and medical camps in underserved areas. This not only provides crucial healthcare services to the community but also sensitizes students to healthcare disparities and the importance of accessible healthcare for all.

4. Education Enhancement: NSS projects can improve access to quality education in the community. Whether it's organizing literacy programs, distributing educational materials, or renovating schools, these initiatives sensitize students to the importance of education and its role in social development.

5. Social Inclusion and Diversity: By engaging with diverse communities, students learn about the challenges faced by marginalized groups and the importance of social inclusion. This helps develop empathy and fosters a more inclusive mind-set among students.

6. Leadership Development: NSS Extension activities often require students to take on leadership roles within their projects. This leadership experience contributes to their personal growth and the development of skills such as decision-making, communication, and problem-solving, which are essential for holistic development.

Institute Conducted Different Extension activities under NSS cell. The activities are categorised into following categories.

a) Health Awareness Programme:

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1.Blood Donation Camp

2.Free Medical Checkup Camp

3.Corona Awareness Programme

4.Eye Check-up Camp

5.Yoga Day celebration

6. HIV Aids Awareness

7. Menstrual hygiene Awareness

b) Participation in Swachchha Bharat Abhiyan:

1.Participation in Swachh Bharat Abhiyan

2.Clean College Campus

3.Cleaning Public Places

4.Cleaning at flood affected Village

5. Camps in different villages

c) Environmental Awareness Programme:

1.Tree Plantation

2.Plastic Eradication

3. Donation of Plants

4.Environmental Awareness Rallies

d) Other Extension Activities:

1.Help to flood affected villages

2.Clothes Donation

3.Help to Old Age Home (Vrudhashram)

4.Voters Awareness Rangoli competition

5. Webinar on Vastushastra

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Dargoba Temple Cleaning and Tree Plantation

Yoda Day Celebration

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Online Webinar on Vastushatra

Online Webinar on Corona Vaccination

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आदर्श इन्स्टिट्यूटच्यावतीने पत्रकारांचा कोव्हीड योद्धा म्हणून सन्मान

जनप्रवास । प्रतिनिधी

विटा : लोकनेते हणमंतराव पाटील चॅरिटेबल ट्रस्ट संचलित आदर्श अभियांत्रिकी महाविद्यालयात संस्थापक अध्यक्ष माजी आमदार ॲड. सदाशिवराव पाटील आणि माजी नगराध्यक्ष ॲड. वैभव पाटील यांच्या प्रमुख उपस्थितीत कोव्हीड योद्धा म्हणून विट्यातील पत्रकारांचा सन्मान करण्यात आला.

यावेळी बोलताना माजी आमदार ॲड. सदाशिवराव पाटील म्हणाले, गेल्या दोन वर्षात कोरोनाच्या महामारीत काही पत्रकार बांधव स्वतः पॉझिटीव्ह असुनही समाजासाठी अहेरात्र धडपडले अशा योध्दयांचा सन्मान करुन त्यांच्या कार्यास अधिकच शक्ती मिळावी म्हणून महाविद्यालयाने हा सन्मान सोहळा आयोजित केला. आदर्श महाविद्यालयाने अशीच आपली प्रगती

उत्तरोत्तर करुन प्रत्येक विद्यार्थ्याला चांगल्या नामांकित कंपनीत नोकरी मिळवुन द्यावी, त्याच बरोबरीने विद्यार्थ्यांना सर्व सोयी सुविधा उपलब्ध करुन ज्ञानाची शिदोरी द्यावी, असे आवाहन केले.

संचालिका पूजा पाटील म्हणाल्या, आदर्श संकुल नेहमीच विद्यार्थ्यांच्या सर्वांगीण विकासासाठी विविध उपक्रम राबवित असते. आदर्श इन्स्टिट्यूटचा नावलौकिक वाढविण्यात योगदान देणारे पत्रकार बांधवांनी कोरोनाच्या संकटकाळात समाजासाठी अहेरात्र योगदान दिले. अशा कोरोना

योध्दयांचा सन्मान करुन त्यांच्या कार्यास अधिकच शक्ती मिळावी म्हणून महाविद्यालयाने हा सन्मान सो-हळा आयोजित केला असल्याचे सांगितले.

स्वागत व प्रास्ताविक प्रा. नारायण खरजे यांनी केले. यावेळी पत्रकारांच्यावतीने संतोप भिंगारदेवे यांनी व दिलीप मोहिते यांनी मनोगत व्यक्त केले. यावेळी संस्थेचे सचिव सुर्यकांत निकम, कार्यकारी संचालक पी. टी. पाटील, कॅम्पस संचालिका पूजा पाटील, विद्यार्थी समन्वयक रविराज सुर्यवंशी, महाविद्यालयाचे प्राचार्य डॉ. डी. के. महाडिक, सेंट्रल टीपीओ प्रा. नारायण खरजे, आयक्यूसी हेड प्रा. प्रविण गावडे, प्रा. एकनाथ पवार, प्रा. आशिप वनकुंद्रे, प्रा. प्रवीण शिंदे यांच्यासह सर्व पत्रकार, विद्यार्थी, पालक व विभागप्रमुख प्राध्यापक उपस्थित होते. आभार प्रा. एकनाथ पवार यांनी मानले.

आदर्श इन्स्टिट्यूटच्यावतीने विट्यातील पत्रकारांचा कोव्हीड योद्धा म्हणून सन्मानप्रसंगी माजी नगराध्यक्ष ॲड. वैभव पाटील,कार्यकारी संचालक पी. टी. पाटील, कॅम्पस संचालिका पूजा पाटील व अन्य.

News Reporter Felicitation as a COVID Yodha

आदर्श अभियांत्रिकी महाविद्यालयाच्या विद्यार्थ्यांना मोफत टॅब वाटप

विटा : हॅलो प्रभात

येथील लोकनेते हणमंतरावपाटील चॅरिटेबल ट्रस्ट संचलित आदर्श इन्स्टिट्यूट ऑफ टेक्नोलॉजी व रिसर्च सेंटर विटा येथे महाविद्यालयाचा १३ वा वर्धापनदिन साजरा करण्यात आला. या निमित्ताने संस्थेचे संस्थापक माजी आ. सदाशिवराव पाटील यांच्या मार्गदर्शनाखाली, संस्थेचे अध्यक्ष ॲड वैभवराव पाटील यांच्या संकल्पनेतून ऑनलाईन शिक्षणाची गरज लक्षात घेऊन सर्वसामान्य कष्टकरी कुटुंबातील विद्यार्थी विद्यार्थीनी यांना मोबाईल फोन/टॅब खरेदी करताना आर्थिक परिस्थितीमुळे टॅब खरेदी करु

शकत नाही, तसेच शिक्षणापासुन कोणीही वंचित राहू नये म्हणून ज्याप्रमाणे शाळा, महाविद्यालय, शैक्षणिक संकुल स्वतःच्या स्वतःच्या आहेत, परंतु महाविद्यालयातील विद्यार्थी विद्यार्थीनी कोरोनाच्या संकटामुळे व आणि परिस्थितीमुळे शिक्षणापासुन वंचित राहूनये, यापुढे महाविद्यालयीन ऑनलाईन शिक्षण घेतना ऑनलाईन शिक्षण ही काळाची गरज असेल, तसेच ऑनलाईन ट्रेनिंग, सेमिनार, वेबिनार हा एक विद्यार्थी विद्यार्थींनी यांचा अविभाज्य हिस्सा, घटक असेल आणि अगोदरच कोरोनामुळे सर्वसामान्य जनतेचे आर्थिक कंबरडे मोडले आहे अश्या परिस्थितीत

पालकांच्या खिशाला झळ लागु नये म्हणून ही संकल्पना आदर्श अभियांत्रिकी महाविद्यालयाच्या १३ व्या वर्धापनदिनानिमित्त या वर्षी नव्याने प्रवेश करणारे विद्यार्थ्यांना अत्याधुनिक टॅब संस्थेचे अध्यक्ष ॲड वैभवदादा पाटील यांच्या शुभहस्ते मोफत देण्यास सुरवात केली यावेळी संस्थेचे कार्यकारी संचालक मा पी टी पाटील सर, महाविद्यालयाच्या संचालिका कु पूजा पाटील, विद्यार्थी समन्वयक कु रविराज सुर्यवंशी, महाविद्यालयाचे प्राचार्य डॉ डी के महाडीक, महाविद्यालयाचे प्रबंधक

मा अजित चव्हाण, ट्रेनिंग व प्लेसमेंट ऑफीसर प्रा नारायण खरजे, आय टी आय प्राचार्य मा जयदिप जाधव व सर्व विभाग प्रमुख प्राध्यापक, शिक्षकेत्तर कर्मचारी, काही विद्यार्थी आणि पालक उपस्थित होते. यावेळी मा वैभव दादा पाटील म्हणाले या मिळालेल्या संधीचा लाभ सर्व सर्वसामान्य तळागाळातील गोरगरीब कुटुंबातील विद्यार्थी विद्यार्थींनी यांनी घेऊन महाविद्यालयाचे नाव उज्वल करुन आई व वडीलांची स्वप्ने पूर्ण करावेत असे मत व्यक्त केले. तसेच प्राचार्य डॉ डी के महाडीक यांनी

महाविद्यालयाचा यशस्वी आलेख अगदी यापुढेही कायम राखला जाईल आणि विद्यार्थी विद्यार्थीनी व पालक यांनी सर्व योजनांचा लाभ घ्यावा अशी आशा व्यक्त केली. या कार्यक्रमाचे सुत्रसंचालन स्थापत्य विभाग प्रमुख प्रा पी एस शिंदे यांनी केले आणि आभार ट्रेनिंग व प्लेसमेंट ऑफीसर प्रा नारायण खरजे यांनी व्यक्त करुन महाविद्यालयातून यापुढेही वेगवेगळे कौशल्य विकास राबवून विद्यार्थी विद्यार्थींनी यांना ऐतिहासिक प्लेसमेंट देण्याचा विश्वास व्यक्त केला.

उपसंपादक/डीटीपी : गिरमल बिराजदार - मो. ८४५९६३७२७१

Free Tab Distribution Among Students

आदर्श टॅलेंट सर्च परिक्षेत उत्तीर्ण विद्यार्थी सन्मानित

विटा-लेखणी सम्राट

आदर्श अभियांत्रिकी महाविद्यालय विटा येथे माजी आमदार सदाशिवराव पाटील यांच्या संकल्पनेतून साकार झालेले व वैभव पाटील यांच्या मार्गदर्शनाखाली २००८ सालापासून गेली बरीच वर्षे पदवी, पदविका तंत्रशिक्षण अभियांत्रिकी सर्व विभागातून शिक्षणाचे काम चालूच आहे, पण कोरोना काळात आत्मविश्वास वाढविण्यासाठी इयत्ता दहावीच्या विद्यार्थ्यांसाठी एक वेगळा प्रकल्प राबवून ही परिक्षा घेण्यात आली होती सदर परिक्षेत खानापूर आटपाडी पलुस कडेगांव तासगाव वाळवा माण खटाव व परिसरातील तालुक्यातील सुमारे ३००० विद्यार्थ्यांची परीक्षा घेण्यात आली होती त्यातून ६५० विद्यार्थी दुसऱ्या फेरीसाठी निवडले होते त्यानंतर ऑनलाईन पद्धतीने परीक्षा घेण्यात आली त्यामध्ये पहिले ५० विद्यार्थ्यांची निवड करण्यात आली आहे. या स्पर्धात्मक आदर्श टॅलेंट सर्च

...डे यांना प्रदान

परिक्षेत उत्तीर्ण प्रथम पारितोषिक स्मार्ट मोबाईल टॅब कु नलावडे प्रमिला अनिल , द्वितीय पारितोषिक सायकल कु सनि राजेंद्र जाधव, तृतीय पारितोषिक स्मार्ट वॉच कु सुतार सायली वसंत यांनी मिळवली यासारखी अनेक बक्षिसे पहिले ५० विद्यार्थी विद्यार्थीनी यांना देण्यात आली यावेळी संस्थेचे कार्यकारी संचालक पी टी पाटील महाविद्यालयांच्या संचालिका पुजा पाटील , विद्यार्थी समन्वयक रवीराज सुर्यवंशी, प्राचार्य डॉ डी के महाडिक,खट-उ प्रमुख प्रा प्रविण गावडे, ट्रेनिंग व प्लेसमेंट ऑफिसर प्रा नारायण खरजे, सर्व विभाग प्रमुख,परिसरातील विद्यालयाचे स्टाफ, पालक, विद्यार्थी विद्यार्थीनी उपस्थित होते. यावेळी कार्यकारी संचालक पी टी पाटील सर म्हणाले की विद्यार्थी विद्यार्थीनी व पालक यांना आपल्या भविष्याला जर कलाटणी द्यायची असेल तर या तंत्रशिक्षण अभियांत्रिकी अभ्यासक्रम आत्मसात करने गरजेचे आहे. विद्यार्थी सर्वगुणसंपन्न असेल तर भविष्य काळात नक्कीच सर्वांना फायदा होईल. तसेच प्राचार्य डॉ डी के महाडीक सर

म्हणाले की महाराष्ट्र शासन तसेच तंत्रशिक्षण विभागाने दिलेल्या सोयी, सुविधा, स्कॉलरशिपचा फायदा ग्रामीण भागातील विद्यार्थी विद्यार्थीनी यांनी घेतला तर शैक्षणिक वाटचालीचा मार्ग नक्कीच सुकर होईल.यावेळी ट्रेनिंग व प्लेसमेंट ऑफिसर प्रा नारायण खरजे यांनी १० वी नंतर पुढे काय? दिशादर्शक वेगवेगळ्या संधी उपलब्धता याविषयावर मार्गदर्शन केले, तसेच ग्रामीण भागातील विद्यार्थी विद्यार्थीनी नक्कीच यशाच्या शिखरावर पोहचू शकतात हे मागील दोन तीन वर्षातील पुराव्यासहित सादर करून विद्यार्थी व पालक यांच्यामध्ये आत्मविश्वास वाढविण्यासाठी माणसिकदृष्ट्या मनोबल वाढविण्यासाठी संवाद साधला.

यावेळी कोरोना काळातील शैक्षणिक हानी भरुन काढायची असेल तर विद्यार्थी,पालक व शिक्षक यांच्यामधील समन्वय साधलात तर पुढील काळात सर्वसामान्य तळागाळातील विद्यार्थीही गरूडझेप घेऊ शकतो असे मत प्रा प्रविण गावडे व्यक्त करून सर्व पदाधिकारी, विद्यार्थी, पालक यांचे आभारी मानले. गेली बरीच महिने आदर्श टॅलेंट सर्च या टीममध्ये अगदी मनापासून झोकून देऊन प्रा पी एस शिंदे, प्रा सी बी पाटील, प्रा व्ही डी जाधव, प्रा आशिष बनकुंद्रे, प्रा सुरज घाटगे, अमित पानसकर, एकनाथ पवार यांनी काम पाहिले. या कार्यक्रमाचे सुत्रसंचालन प्रा सुरज घाटगे सर यांनी केले.

शासन प्रत्येक घटकाच्या पाठीशी ठाम उभे राहणार:मुख्यमंत्री

सांगली-लेखणी सम्राट

शेतकरी, व्यापारी, छोटे मोठे व्यावसायिक या घटकाचे पुरामुळे नुकसान झाले असले तरी कोणीही खचून जाऊ नका. राज्य सरकार आपल्या पाठीशी असून आपल्यामध्ये असलेले आपुलकीचे नाते बाळगुया, असा विश्वास मुख्यमंत्री

Adarsh Talent Search Event and Its Price Distribution

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Adarsh Talent Search Event and Its Price Distribution

Sanitary Napkin Distribution to women's in nearby Villages

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Flood Area Cleaning work

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आदर्श अभियांत्रिकी कॉलेजने जपली सामाजिक बांधिलकी

।। विटा ।।

लोकनेते हणमंतराव पाटील चॅरिटेबल ट्रस्ट संचलित आदर्श आभियांत्रिकी पदवी म हाविद्यालय विटा व शिवाजी विद्यापीठ राष्ट्रीय सेवा योजना कोल्हापूर याच्या सयुंक्त विद्यामाने तसेच माजी आमदार सदाशिवराव पाटील व विटा नगरपरिषदेचे स्वच्छता अभियानाचे दूत माजी नगराध्यक्ष वैभव पाटील यांच्या नेतृत्वाखाली पलुस तालुक्यातील पुरग्रस्ताच्या मदतीला धावून गेले. यापूर्वीच जाऊन त्या भागातील लोकांना जीवनावश्यक वस्तू पुरवल्या परंतु पुर ओसरल्यानंतर या लोकांना विविध आरोग्याच्या समस्या निर्माण होऊ शकतात त्यामुळे त्या परिसरातील स्वच्छता करणे आवश्यक आहे.

आज आदर्श आभियांत्रिकी पदवी म हाविद्यालयातील राष्ट्रीय सेवा योजनेतील सुमारे

७५ विद्यार्थी या अभियानात सहभागी झाले आणि पुग्रत भागात जाऊन स्वच्छता करावयाचे ठरवलं सदर च्या कामासाठी पुढाकार संस्थेचे संचालक पी टी पाटील व महाविद्यालयाच्या संचालिका पुजा पाटील विद्यार्थी समन्वयक रविराज सुर्यवंशी यांनी घेऊन लोकनेते हणमंतराव पाटील चॅरिटेबल ट्रस्ट संचलित विविध पाच महाविद्यालये दि, १४ ऑगस्ट व १५ ऑगस्ट रोजी विविध गावात स्वच्छता केली.

यामध्ये आमणापुर, आनुगडेवाडी व विठ्ठलवाडी परिसरात स्वच्छता करण्यात आली. या अभियानात आदर्श आभियांत्रिकी पदवी चे प्राचार्य डॉ डी एस भोसले व्यवस्थापकीय आधीछता पी एस शिंदे आम णापुर गावचे वैभव उगळे राष्ट्रीय सेवा योजना चे समन्वयक राजेंद्र मालगावे, प्रकल्प अधिकारी एकनाथ पवार, प्रा प्रवीण गावडे सह प्राध्यापक शिक्षकेत्तर कर्मचारी विद्यार्थी सहभागी झाले होते.

Flood Area Cleaning work

Cloth Distribution in Flood Area

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Necessary goods and Food distribution in Flood Area

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Blood Donation Camps

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कमळापूरात 'आदर्श'चे श्रमसंस्कार शिबीर उत्साहात

विटा, दि. ३१ (प्रतिनिधी)
: कमळापूर (ता. खानापूर) येथे विटा येथील आदर्श इन्स्टिट्युट ऑफ रिसर्चच्या सेंटरचे विशेष श्रमसंस्कार शिबीर उत्साहात झाले.

शिबिरात शिक्षण व आरोग्य विकास अशी संकल्प होती. शिबिरा अंतर्गत, मंदिर स्वच्छता मोहीम, स्मशानभूमी व स्मशानभूमीकडे कडे जाणारा रस्ता स्वच्छता मोहीम, गावातील संपूर्ण स्वच्छता मोहीम स्वच्छता मोहीम, कचराकुंडी लोकार्पण, इत्यादी उपक्रम पूर्ण केले. सांस्कृतिक कार्यक्रम घेण्यात आले. युवकांना मार्गदर्शन म्हणून व्याख्यानमाला सुद्धा ठेवण्यात आल्या होत्या

कमळापूर : विशेष श्रमसंस्कार शिबिरात रोपे देऊन सत्कार करताना सदाशिवराव पाटील, प्रमिला साळुंखे, अरविंद गायकवाड व इतर

व्याख्यानमाला अंतर्गत निर्मला यादव, विषय तज्ञ बीआरसी विटा यांनी शिक्षणातून आरोग्य विकास याविषयी मार्गदर्शन केले, माननीय डॉ. दीपाली पाटील यांनी आरोग्य विषयी फार मोलाचे मार्गदर्शन केले. सौरभ तिडके यांनी राष्ट्रीय सेवा योजना विषयी विद्यार्थ्यांना माहिती दिली राजेंद्र सूर्यवंशी यांनी युवकांसमोरील आव्हाने याविषयी मार्गदर्शन केले प्रा. अंकुश निकम, यांनी प्रचलित शिक्षण पद्धतीचे फायदे व तोटे या विषयी मुलांना मार्गदर्शन केले. डॉ. प्रमोद महाडिक यांनी विद्यार्थ्यांना आयुर्वेदाचे महत्त्व समजावून दिले तसेच डॉ. डी. के. गायकवाड सेंद्रिय शेती याविषयी मार्गदर्शन केले. डॉक्टर सुरेश म्हेत्रे यांनी मोफत दंत चिकित्सा शिबिरांमध्ये गावांमधील लहान मुलांच्या दातांची तपासणी करून त्यांना दातांची निगा राखण्यासाठी योग्य तो सल्ला दिला. कार्यक्रमाच्या उद्घाटनासाठी माजी नगराध्यक्ष वैभव पाटील यांनी मार्गदर्शन केले तसेच समारोप प्रसंगी माजी आमदार सदाशिव पाटील सरपंच प्रमिला साळुंखे, उपसरपंच शोभा साळुंखे रुपाली शिरतोडे, गणेश जाधव, लक्ष्मी साळुंखे, वसंत नारायण गायकवाड, अब्दुल मुजावर, भीमराव गायकवाड उपस्थित होते.

NSS Camp in KAMLAPUR

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NSS camp

NSS camp

Principal

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Phone & Fax: (02347) 229021 **Email:** aitrc@agiv.edu.in **Web :** www.aitrcvita.edu.in
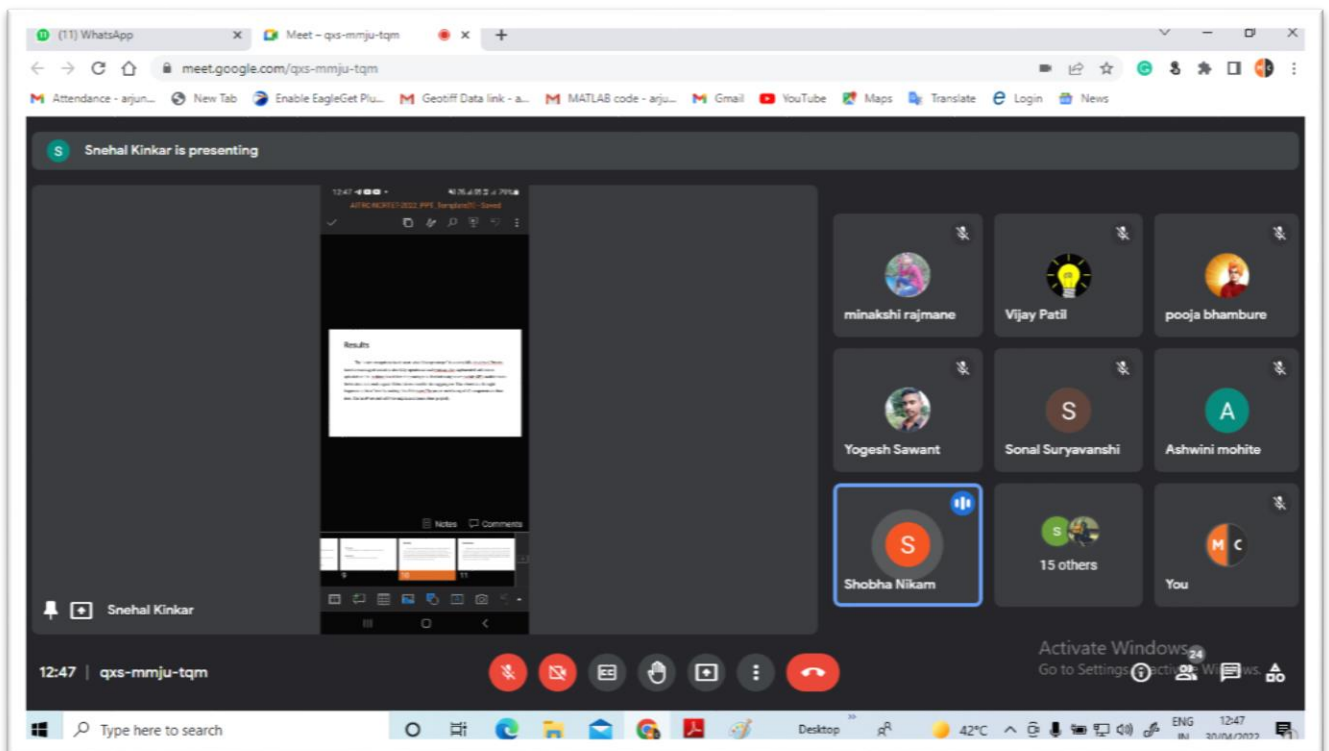Hon.Adv.Sadashivrao H Patil   Hon.Adv.Vaibhav S Patil
Ex.MLA. Founder   President

7.3: Institutional Distinctiveness

Performance of the Institution in Research Activities

1. Increased Innovation Culture: Such initiatives foster a culture of innovation within the institution. Faculty, researchers, and students are encouraged to think creatively and develop new ideas and solutions.

2. IPR Awareness: Awareness about Intellectual Property Rights is crucial in protecting and commercializing innovations. Institutions that educate their members about IPR ensure that their intellectual assets are safeguarded.

3. Research Funding: Successful innovation can attract research funding and grants from government agencies, private organizations, and venture capitalists, which can further enhance the institution's research capabilities.

4. Industry Collaboration: Industry partnerships and collaborations become more accessible when the institution is proactive in protecting and transferring its intellectual property. This can lead to sponsored projects, internships, and job placements for students.

5. Publication and Patents: Faculty and students may publish their research findings while also filing patents. This dual approach ensures academic recognition and potential commercialization.

6. Student Involvement: Students have the opportunity to actively participate in research and innovation, gaining practical experience and increasing their employability.

7. Global Recognition: Institutions with a strong innovation ecosystem can gain recognition on the global stage, attracting international partnerships and collaborations.

Institute Conducted Different activities under Research and Development Cell:

1. Organised Two National Conferences
2. Filed and published patents
3. Organised workshops on Research methodology
4. Organised talks on IPR

LOKNETE HON.HANMANTRAO PATIL CHARITABLE TRUST'S VITA
ADARSH INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE
(NAAC Accredited Institute)
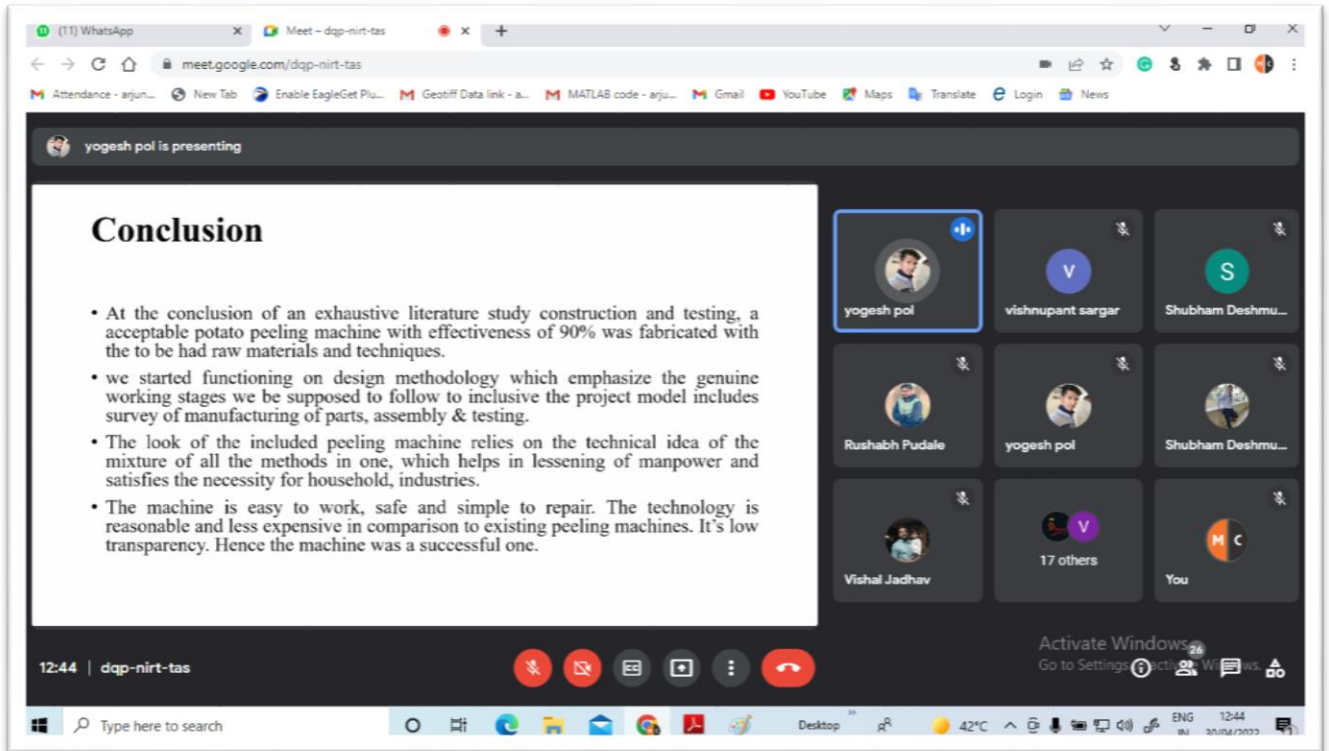**A/P:** Khambale(Bha) Near Karve MIDC, Vita **Tal:** Khanapur **Dist:** Sangli.415311
Phone & Fax: (02347) 229021 **Email:** aitrc@agiv.edu.in **Web :** www.aitrcvita.edu.in
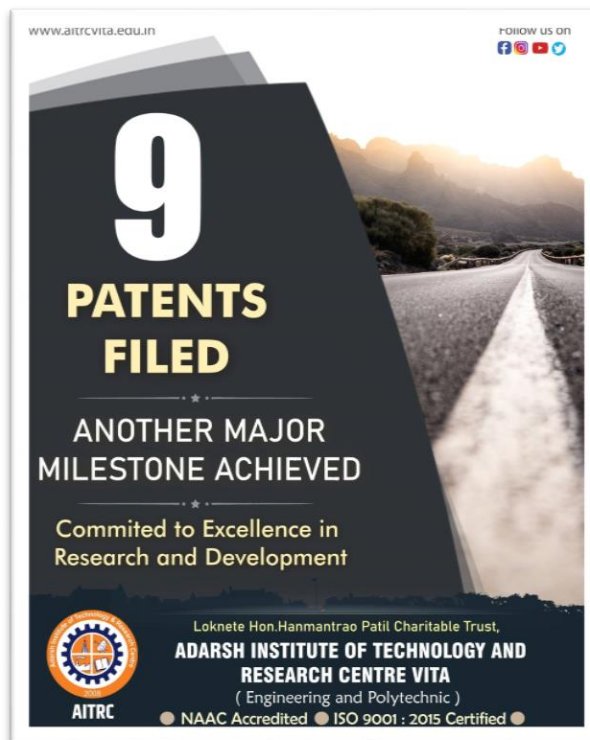**Hon.Adv.Sadashivrao H Patil**   **Hon.Adv.Vaibhav S Patil**
Ex.MLA. Founder   President

5. Organised workshops on Different Research areas

6. Faculties Published papers in Journals and conferences

7. Student published papers in Journals and conferences

8. Submitted funding Proposals to different funding agencies

9. Got funds from BCUD Shivaji University Kolhapur to four different faculties.

10. Our one of the faculty got funded project from different countries.

National Conference on Recent trends in Engineering and Technology (NCRTET 2022-23)

LOKNETE HON.HANMANTRAO PATIL CHARITABLE TRUST'S VITA
ADARSH INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE
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Ex.MLA. Founder	President

National Conference on Recent trends in Engineering and Technology (NCRTET 2022-23)

National Conference on Recent trends in Engineering and Technology (NCRTET 2021-22 -

Online)

LOKNETE HON.HANMANTRAO PATIL CHARITABLE TRUST'S VITA

ADARSH INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE

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Hon.Adv.Sadashivrao H Patil   Hon.Adv.Vaibhav S Patil
Ex.MLA. Founder   President

National Conference on Recent trends in Engineering and Technology (NCRTET 2021-22-Online)

Nine Patents Filled and Published

Patents filled and Published

(12) PATENT APPLICATION PUBLICATION   (21) Application No.202221007291 A

(19) INDIA

(22) Date of filing of Application :11/02/2022   (43) Publication Date : 18/08/2023

(54) Title of the invention : ADVANCE IRRIGATION SYSTEM USING SOLENOID VALVE AND SENSORS

(51) International classification	:A01G0025160000, G05B0019042000, G06Q0050020000, A01G0022000000, G01N0033240000	(71)**Name of Applicant :** 1)**Devidas Kundalik Mahadik** Address of Applicant :A/P Khambale(Bha.), Near MIDC, Tal - Khanapur, Dist - Sangli, Vita, Maharashtra Maharashtra India 2)**Arjun Ramchandra Nichal** 3)**Abhijit Diliprao Ghorapade** 4)**Ashwini Balasaheb Mohite** 5)**Ganesh Raju Pawar**
(31) Priority Document No	:NA	6)**Neha Kakasaheb Mohite**
(32) Priority Date	:NA	7)**Pankaj Shahaji Lengare**
(33) Name of priority country	:NA	8).**Anuradha Manik Kambale**
(86) International Application No Filing Date	:NA :NA	9)**Prashant Balkrishna Yadav** (72)**Name of Inventor :** 1)**Devidas Kundalik Mahadik**
(87) International Publication No	: NA	2)**Arjun Ramchandra Nichal**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	3)**Abhijit Diliprao Ghorapade** 4)**Ashwini Balasaheb Mohite**
(62) Divisional to Application Number Filing Date	:NA :NA	5)**Ganesh Raju Pawar** 6)**Neha Kakasaheb Mohite** 7)**Pankaj Shahaji Lengare** 8).**Anuradha Manik Kambale** 9)**Prashant Balkrishna Yadav**

(57) Abstract :
The advanced irrigation system is an automatic irrigation system which is being widely used in the field of agriculture. Irrigation is practiced in farms where there is scarcity of water. This smart irrigation system is a farmer-friendly irrigation system, which is completely automated. This system runs without intervention of humans. The system design also has the features of which make the system wireless with the help of GSM. This project provides better services to the farmer. In this system rain sensor, temperature sensor, soil moisture sensor, humidity sensor, electrochemical sensor, voltage sensor are used for sensing rainfall, environment temperature, moisture level of soil, pH and soil nutrient level in corresponding farm. Pump is used to suck the water from well. To control the solenoid valve Arduino kit is used. As well as water sucking capacity of soil is fulfill that time sensor send signal to Arduino to turn off the valve and with the help of GSM valve operate automatically.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/02/2022

(21) Application No.202221008381 A

(43) Publication Date : 18/08/2023

(54) Title of the invention : SMART GARBAGE CLEARANCE AND MONITORING SYSTEM USING IOT

(51) International classification	:B09B0003000000, B65F0001000000, B65F0001140000, B09B0005000000, B30B0009300000	(71)**Name of Applicant :**
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		  2)**Vinod Bhimrao Ingale**
		  3)**Sagar Rajaram Mali**
		  4)**Pramod Tatyasaheb Shitole**
		  5)**Sagar Prabhkar Mali**
		  6)**Dhanaji Krishna Jadhav**
		  7)**Sagar Shankar Lad**
		  8)**Amruta Dilip Patil**
		  9)**Prajakta pratap patil**
		  10)**Amisha Sunil Mali**
		  11)**Arjun Ramchandra Nichal**

(31) Priority Document No	:NA	
(32) Priority Date	:NA	(72)**Name of Inventor :**
(33) Name of priority country	:NA	1)**Devidas Kundalik Mahadik**
(86) International Application No	:NA	2)**Vinod Bhimrao Ingale**
Filing Date	:NA	3)**Sagar Rajaram Mali**
(87) International Publication No	: NA	4)**Pramod Tatyasaheb Shitole**
(61) Patent of Addition to Application Number	:NA	5)**Sagar Prabhkar Mali**
Filing Date	:NA	6)**Dhanaji Krishna Jadhav**
(62) Divisional to Application Number	:NA	7)**Sagar Shankar Lad**
Filing Date	:NA	8)**Amruta Dilip Patil** 9)**Prajakta pratap patil** 10)**Amisha Sunil Mali** 11)**Arjun Ramchandra Nichal**

(57) Abstract :
One of the main concerns with our environment has been solid and dry waste management which in addition to disturbing the balance of the environment also has adverse effects on the health of the society. The detection, monitoring and management of waste is one of the main primary problems of the present era. The process of creating the items automatic is being exploited in most the most important fields of life. Solid and dry waste which is one of the sources and causes of environmental pollution and health disease has been defined under Resource Conservation and Recovery Act as any solid, semi-solid liquid or contained evaporated materials discarded from industrial, commercial, mining or agricultural operations and from community activities. The type of wastes that represent environmental pollution and that this work emphasizes on is domestic refuse consisting of degradable food wastes, leaves, dead animals and non-degradable ones like plastics, bottles, nylon, medical and hospital wastes, generated in households, hospitals, industries and business centers. In alternative words, solid wastes could also be outlined because the organic and inorganic waste materials created by varied activities of the society and that have lost their worth to the first user. To overcome this downside a replacement approach, Automatic waste management system is projected. The main objective of this is process is to separate waste at the houses in the society into dry waste and wet waste using a relay circuit driven by a comparator circuit. This waste is collected at the container. The instrumentality incorporates a measuring device accustomed sight the amount of the rubbish collected into it. When garbage reaches a specific level, a sign to the management unit is distributed victimization RF module. Also, a neighbourhood besides the wayside garbage containers is enforced .This zonal space uses the construct of load device to point if any garbage spills out the instrumentality.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION   (21) Application No.202221007292 A

(19) INDIA

(22) Date of filing of Application :11/02/2022   (43) Publication Date : 18/08/2023

(54) Title of the invention : DEVELOPMENT OF ECO-FRIENDLY SOLID BLOCK AND BRICKDEVELOPMENT BY USING FOUNDRY SAND, SUGARCANE BAGASSE ASH AND FLYASH.

(51) International classification :C04B0028020000, C04B0028000000, C08L0097020000, C04B0033135000, C08K0011000000	(71)**Name of Applicant :** 1)**Devidas Kundalik Mahadik** Address of Applicant :A/P Khambale(Bha.), Near MIDC, Tal - Khanapur, Dist - Sangli, Vita, Maharashtra Maharashtra India 2)**Pradip Shankar shinde** 3)**Pramod Raghunath Thorat** 4)**Chandrahas Bhimrao Patil** 5)**Chandani Anil Sawant** 6)**Abhishek Parashram Sawant** 7)**Shubham Vijay Desai** 8)**Rohit Shankar Tamkhade** 9)**Aradhana Ashok Mohite** 10)**Arjun Ramchandra Nichal**
(31) Priority Document No :NA	
(32) Priority Date :NA	(72)**Name of Inventor :** 1)**Devidas Kundalik Mahadik** 2)**Pradip Shankar shinde** 3)**Pramod Raghunath Thorat** 4)**Chandrahas Bhimrao Patil** 5)**Chandani Anil Sawant** 6)**Abhishek Parashram Sawant** 7)**Shubham Vijay Desai** 8)**Rohit Shankar Tamkhade** 9)**Aradhana Ashok Mohite** 10)**Arjun Ramchandra Nichal**
(33) Name of priority country :NA	
(86) International Application No :NA	
Filing Date :NA	
(87) International Publication No : NA	
(61) Patent of Addition to Application Number:NA	
Filing Date :NA	
(62) Divisional to Application Number :NA	
Filing Date :NA	

(57) Abstract :

The waste materials such as fly ash, sugarcane bagasse ash (SCBA), rice-husk ash, foundry sand and agricultural based industries are directly discharging on the land without any treatment. When they are exposed to the environment, they decompose partially or fully and thus creating environmental pollution and spreading disease to the people. These industrial waste materials can be partially utilized or recycled to make useful materials as fillers or aggregates for the replacement of cement or sand in concrete. The use of these waste materials acts not only to solve environmental and ecological problems, but also to improve the microstructure properties of concrete with minimum cost. Several types of research have been carried out to find their extensive usage in the construction field and solve the disposal problem. It is proposed to develop the blocks using conventional materials by utilizing the waste materials namely, sugarcane bagasse ash, foundry sand and fly ash, as studies have shown that all these materials have indicated their potential in gaining desired strength and durability properties as per the codal requirements; and also these materials are available at throwaway costs.

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION   (21) Application No.202221008393 A

(19) INDIA

(22) Date of filing of Application :17/02/2022   (43) Publication Date : 18/08/2023

(54) Title of the invention : IOT-BASED PATIENT HEALTHCARE MONITORING SYSTEM

(51) International classification	:A61B0005000000, G06Q0050220000, G16H0010600000, A61B0005020500, A61B0005024000	(71)**Name of Applicant :**
		  1)**Devidas Kundalik Mahadik**
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		  2)**Ashish Adinath Vankudre**
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		  4)**Vaishnavi Vijayrao Mane**
		  5)**Tejaswini Anil Madane**
		  6)**Madhuri Anil Choudhari**
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		  3)**Vicky Dnyanu Nalawade**
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		  5)**Tejaswini Anil Madane**
		  6)**Madhuri Anil Choudhari**
		  7)**Samina Rafik Chougule**
		  8)**Arjun Ramchandra Nichal**

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

(57) Abstract :

IoT in healthcare is a crucial actor in offering improved medical facilities to people while also assisting doctors and hospitals. The suggested system consists of various medical equipment such as sensors and web-based or mobile-based applications that communicate via network-connected devices and aid in the monitoring and recording of patients' health data and medical information. The paper's proposed objective is to construct a system to deliver world-class medical help to patients even in the most remote locations where there are no hospitals by connecting via the internet and capturing information about their health state through the wearable devices given in the kit, which use an arduino microcontroller to monitor the patient's heart rate and blood pressure. In the event of a medical emergency, the system should notify the patient's family members and doctor of the patient's current health state and complete medical information.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/02/2022

(21) Application No.202221006665 A

(43) Publication Date : 11/08/2023

(54) Title of the invention : ADVANCE CAPACITOR BANK FOR AGRICULTURE AND INDUSTRIY PURPOSE FOR POWER FACTOR IMPROVEMENT AND VOLTAGE STABILIZATION

(51) International classification	:H02M0001420000, H02J0003180000, G05F0001700000, H02P0023260000, H02K0017300000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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  3)**Pranali Pralhad Nikam**
  4)**Arjun sadashiv pawar**
  5)**Aniket Sarjerao Jadhav**
  6)**Swapnil Uttam Chavan**
  7)**Ajay Rajaram Devkar.**
  8)**Vaibhav Ravaso Yadhav Patil**
  9)**Arjun Ramchandra Nichal**
(72)**Name of Inventor :**
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  2)**Surajkumar Sadashiv Ghatage**
  3)**Pranali Pralhad Nikam**
  4)**Arjun sadashiv pawar**
  5)**Aniket Sarjerao Jadhav**
  6)**Swapnil Uttam Chavan**
  7)**Ajay Rajaram Devkar.**
  8)**Vaibhav Ravaso Yadhav Patil**
  9)**Arjun Ramchandra Nichal**

(57) Abstract :
A poor power factor normally leads to a less efficient electrical system, and may also be less economically efficient for system operators and end consumers. Therefore, power factor improvement plays a crucial role in the efficient system operation and electricity consumption costs reductions. The power factor improvement obtained by using capacitor banks to generate locally the reactive energy necessary for the transfer of electrical useful power, allows a better and more rational Technical-economical management of the plants. Power factor improvement is one of the techniques which help in conservation of electrical power along with a number of other benefits. A number of different techniques can be used to improve the power factor. Different techniques give good results for different types of loads, but the technique which is needed to improve power factor for the Agriculture and industrial loads explained in this project. The technique described in this project is claimed to be the most efficient for the power factor improvement capacitor banks. Several technologies of motors are available in the market, since the most affordable in terms of cost up to the most efficient or compact one. Besides that, motors have to be able to meet many specific application requirements, like speed range, installation, safety, reliability, low level of noise and vibration, long life, maintenance etc. Induction motors account for approximately 50 % of the overall electricity use in industrialized countries. In the agricultural and commercial sectors also, power consumption by ac motors is quite substantial. On an average, the energy consumed by a motor during its life cycle is 60-100 times the initial cost of the motor. This project describes by using capacitor bank for power factor improvement in an agriculture and industrial electric motor by connecting capacitor with starter.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/02/2022

(21) Application No.202221008372 A

(43) Publication Date : 18/08/2023

(54) Title of the invention : EXPERIMENTAL AND COOL PACK SOFTWARE ANALYSIS OF VAPOR COMPRESSION REFRIGERATION SYSTEM WITH SUPERHEATING BY USING R-134A REFRIGERANT

(51) International classification	:F25B0040000000, F25B0001100000, F25B0009000000, F25B0006040000, F25B0005020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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  7)Aute Girish Sanjay
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(72)Name of Inventor :
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  3)Sourabh Shivaji Jadhav
  4)Kadam Prathamesh Babaso
  5)Kirdat Tushar Shashikant
  6)Mane Indrajeet Rajendra
  7)Aute Girish Sanjay
  8)Arjun Ramchandra Nichal

(57) Abstract :
It is necessary to modify the simple vapour compression refrigeration cycle in order to improve the performance. The COP of system can be improved by increase the refrigeration effect or by decreasing the work required to run the compressor. The refrigeration effect can be increasing by maintaining the superheated refrigerant at exit of evaporator. On the basis Experimental analysis on vapour compression refrigeration system (VCRS) with R-134a as a refrigerant are used and their result was recorded. The effect of increasing evaporating temperature (superheating) on various performance parameter such as COP, power required to run the compressor ,volumetric efficiency , percentage increase in COP, percentage reduction in power to run compressor are find out. The main objective of this paper is evaluate the performance of VCRS cycle with the help of liquid line heat exchanger by using R-134a as a refrigerant.

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221017294 A

(19) INDIA

(22) Date of filing of Application :11/02/2022   (43) Publication Date : 25/08/2023

(54) Title of the invention : DESIGN AND FABRICATION OF AUTOMATIC POTATO PEELING MACHINE

(51) International classification	:A23N0007020000, C05F0007000000, A47J0017020000, A23N0007000000, A47J0017180000	(71)**Name of Applicant :** 1)**Devidas Kundalik Mahadik** Address of Applicant :A/P Khambale(Bha.), Near MIDC, Tal - Khanapur, Dist - Sangli, Vita, Maharashtra Maharashtra India 2)**Vishal Dhondiram Jadhav** 3)**Harshal Shantanu Bhore** 4)**Nandkumar Mahadev Patil** 5)**Pravin Prabhakar Gavade** 6)**Amitkumar Bhimrao Salunkhe** 7)**Yogesh Dadaso Pol** 8) **Mhejbbeen Dadasaheb Inamdar** 9) **Sourabh Dilip More** 10) **Mhommadsohel Aslam Tamboli** 11) **Shrihari Ganpati Kadam** 12) **Arjun Ramchandra Nichal**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	(72)**Name of Inventor :** 1)**Devidas Kundalik Mahadik** 2)**Vishal Dhondiram Jadhav** 3) **Harshal Shantanu Bhore** 4)**Nandkumar Mahadev Patil** 5)**Pravin Prabhakar Gavade** 6)**Amitkumar Bhimrao Salunkhe** 7)**Yogesh Dadaso Pol** 8) **Mhejbbeen Dadasaheb Inamdar** 9) **Sourabh Dilip More** 10) **Mhommadsohel Aslam Tamboli** 11) **Shrihari Ganpati Kadam** 12) **Arjun Ramchandra Nichal**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
Peeling of vegetables and fruits is one of the most frequent operations even at house hold purposes or at hotels. Manual peeling is peeling the vegetables with hand tool is toughest and time consuming process. Mechanization of processing operations will play a vital role in removing the negative attributes of the traditional processing techniques and promote timely large scale production with desired quality. This paper shows the chronological development of mechanical peeling and also highlights on new concept of potato peeler which would be the basic requirement for large scale potato peeling applications. The purpose of our paper is to design and fabricate the potato peeling machine. It is aimed at providing a base for the commercial production of a peeling machine, using locally available raw materials at a relatively low cost.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.202221007293 A

(22) Date of filing of Application :11/02/2022

(43) Publication Date : 18/08/2023

(54) Title of the invention : A STUDY ON THE SUSTAINABLE FEATURES OF FLOATING BUILDING

(51) International classification	:B63B0035440000, B63B0035000000, G06Q0050160000, E02B0003060000, G06Q0050080000	(71)**Name of Applicant :** 1)**Devidas Kundalik Mahadik** Address of Applicant :A/P Khambale(Bha.), Near MIDC, Tal - Khanapur, Dist - Sangli, Vita, Maharashtra Maharashtra India 2)**Nilam Pramod Thorat** 3)**Ashwini Baban Sankpal** 4)**Rohan Ravi Malvankar** 5)**Sanika Rajendra Repal** 6)**Abhishek Laxman Ghadge** 7)**Abhishek Ashok Sawant** 8)**Faizan Naushad Mulla** 9)**Arjun Ramchandra Nichal** (72)**Name of Inventor :** 1)**Devidas Kundalik Mahadik** 2)**Nilam Pramod Thorat** 3)**Ashwini Baban Sankpal** 4)**Rohan Ravi Malvankar** 5)**Sanika Rajendra Repal** 6)**Abhishek Laxman Ghadge** 7)**Abhishek Ashok Sawant** 8)**Faizan Naushad Mulla** 9)**Arjun Ramchandra Nichal**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Increasing population has resulted in increased housing needs, but currently the available land for housing is decreasing. In addition, climate change has resulted in rising sea levels. Floating buildings use aquatic areas such as lakes, seas, beaches, rivers, and their parts and are not on land or land with floating type or a raft house, it can be concluded that a floating house or raft house is a residential building that is built on water by applying floating structures, materials, and shapes that correspond to the construction site. The floating house is above the water with the position of the building following the water level. It needs the principle of balance so that the building is not tilted, and needs a fastening pole so that the house does not move following the flow of water. sustainability of floating building can be interpreted as an energy and ecologically conscious approach to a building for living/working space on floatation system without navigation tool. The main infrastructures of Floating building is to maximize the use of water should be provided before establishing a new project. Material selection is another main step in the process of designing any floating building. Although, materials selected should be suitable for use with marine environment, there are different types of innovative materials which can be considered as highly appropriate for floating buildings.

No. of Pages : 17 No. of Claims : 5

Conferences Conducted

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PATRONS

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- **Dr. A. R. Nichal**
[HOD E & TC, R & D Cell Head & Chief Coordinator of Conference]

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"National Conference on Recent Trends in Engineering and Technology"

6th May 2023
(Saturday)
10:00AM to 5:00 PM

Organized By
Electronics & Telecommunication Engineering Department and Research and Development Cell

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Adarsh Institute of Technology & Research Centre, Vita, Maharashtra,

Website: www.aitrcvita.edu.in

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Conference Registration fee is **Rs.1700/-** Per paper. After Paper Acceptance Bank Account Information or Phone pe, Gpay Number will be Shared to Authors of All Accepted Papers.

Important Dates

Full paper submission: 22/04/2023

Indexing

All Presented papers will be published in UGC Approved Journal.

Link to Submit Full Paper

https://forms.gle/Xrtx3JMi4ELgEiiu9

Conference Website:

Download Paper template and Copyright form from following website
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(Saturday)
10:00AM to 5:00 PM

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Eligibility:

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Date And Venue:

The National Conference will be held on 30th April 2022 at Adarsh Institute of Technology & Research Center, Vita

Conference Broad Areas:

This conference accepts research papers from following streams

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Conference Fees:

The Presentation and Publication cost of Manuscript in International Journal is **900 Rs** Per paper. After Paper Acceptance Bank Account Information or Phone pe, Gpay Number will be Shared to Authors of All Accepted Papers.

Important Dates

Full paper submission: 04/04/2022

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12/04/2022

Mode of Conference:

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All Presented papers will be published in UGC Approved Journal.

Link to Submit Full Paper

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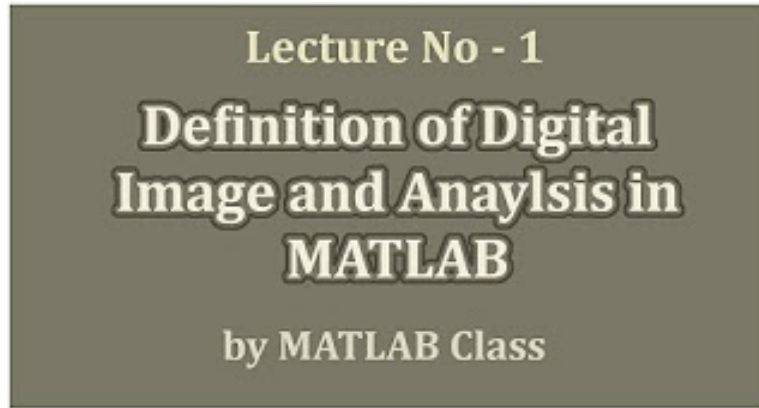
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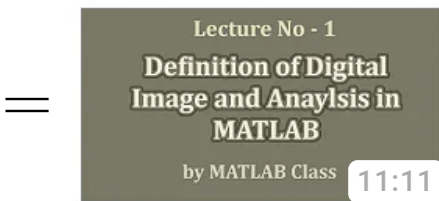
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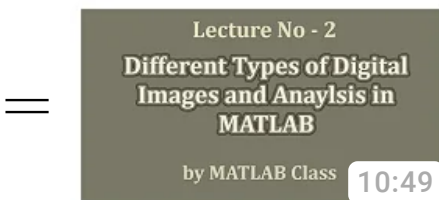
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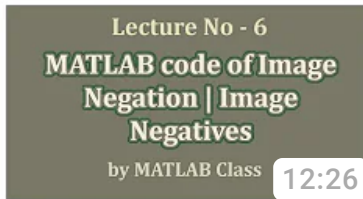
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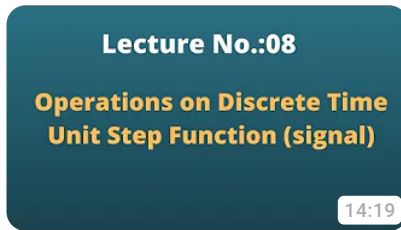
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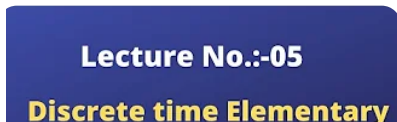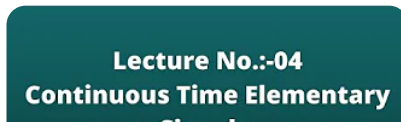
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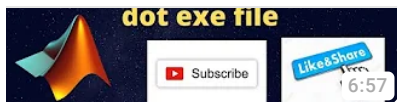
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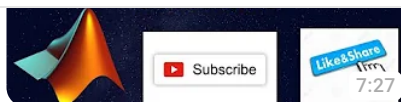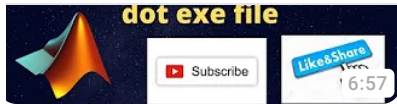
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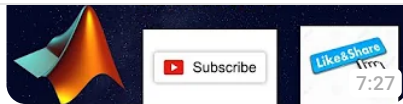
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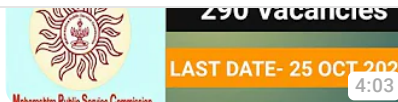
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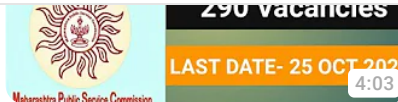
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Sunday, April 16, 2023

Face Recognition using PCA MATLAB code

Facial recognition has become a very popular technology in recent years, and one of the most commonly used algorithms for this task is Principal Component Analysis (PCA). In this blog post, we will explore how to implement a face recognition system using PCA in MATLAB, a popular programming language for scientific computing.

Face recognition is a challenging problem that involves detecting and identifying human faces from images or videos. One approach to solving this problem is to use PCA for feature extraction. The idea behind PCA is to transform the original high-dimensional image data into a lower-dimensional space while preserving as much information as possible.

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at 9:00 AM   No comments:

Labels: face recognition using PCA, Image Processing Project, Image Processing Projects, MATLAB Basics, MATLAB code, MATLAB fundamentals, MATLAB GUI, MATLAB Projects

Saturday, April 15, 2023

JPEG2000 MATLAB code

JPEG2000 is an image compression standard that is widely used in various fields, such as digital photography, medical imaging, and satellite imagery. It provides higher compression ratios and better image quality than its predecessor, JPEG. In this blog post, we will discuss how to implement JPEG2000 image compression using MATLAB code.

The JPEG2000 image compression process involves four main steps: Discrete Wavelet Transform (DWT), Quantization, Entropy Coding, and Bitstream Formation. Let's discuss each step in detail and see how to implement them in MATLAB.
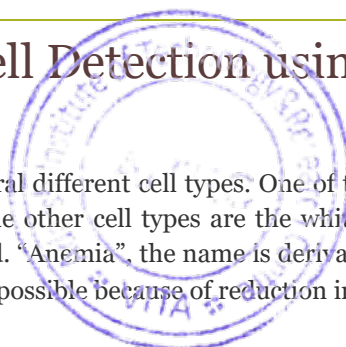
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Friday, March 24, 2023

MATLAB Code of Sickle Cell Detection using Image Processing

The cellular part of blood molecule contains several different cell types. One of the most important and the most numerous cell types are red blood cells. The other cell types are the white blood cells and platelets. Anemia is the most common disorder of the blood. "Anemia", the name is derivative from the ancient Greek word anaimia, which means "Lack of Blood". It is possible because of reduction in Red Blood Cells (RBCs) or

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resulting in lesser than normal quantity of haemoglobin in the blood. However, it can also include decreased oxygenbinding ability of each haemoglobin molecule due to deformity or lack in numerical development. Anemia is actually a sign of a disease process rather than being a disease itself. It can be either classified as acute or chronic. In chronic anemia, symptoms typically begin slowly and progress gradually; whereas in acute anemia, symptoms can be abrupt and more distressing. Among many factors, both nutritional (like vitamins and mineral deficiencies) and nonnutritional (like infection and haemoglobinopathies), that contribute to the onset of anemia; Iron Insuffiency and malaria plays a significant role. For men, anemia is typically defined as hemoglobin level of less than 13.5 g/dl and in women as hemoglobin of less than 12.0 g/dl.

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Labels: Biomedical, Image Processing Projects, Image segmentation, MATLAB GUI, MATLAB Projects

MATLAB Code of Advanced SPIHT for Image Compression.

A challenging effort that necessitates a thorough understanding of wavelet transforms, entropy coding, and bit manipulation is the implementation of the SPIHT (Set Partitioning In Hierarchical Trees) image compression technique from scratch. Listed below is a high-level breakdown of the procedures needed to implement SPIHT image compression:

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Labels: image compression, Image Processing Project, Image Processing Projects, MATLAB GUI, MATLAB Projects

Tuesday, July 20, 2021

Image Denoising using curvelet Transform MATLAB code | MATLAB Project

Hello friends, Today posting project in the field of image denoising. A picture is often distorted by noise in it acquisition and transfer. Therefore, noise reduction is A necessary step for any complex image processing algorithm. Debt reduction or noise reduction has been the subject of a permanent study for engineers and scientists and one reason for this is the lack of a single process, capable of performing a wide range of denoising photographic category. Or, traditional noise removal techniques such as Wiener filters have been around for a long time time for their simplicity and ability to achieve significant noise removal when the noise variation is low, causes blurring and smoothing out the sharp edges of the image. This post including dual use of curvelet transform, curvelet convert curve and curvelet transform with USFFT using two sorting methods such as hard and half threshold reconstruction.

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Labels: Image denoising, Image Processing Fundamentals, Image Processing Project, Image Processing Projects, Image restoration, MATLAB Projects

Monday, July 19, 2021
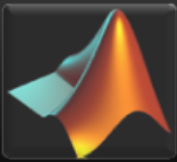
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Face Recognition using PCA MATLAB code (https://paidproj.blogspot.com/2023/04/face-recognition-using-pca-matlab-code.html)

20:30

Facial recognition has become a very popular technology in recent years, and one of the most commonly used algorithms for this task is Principal Component Analysis (PCA). In this blog post, we will explore how to implement a face recognition system using PCA in MATLAB, a popular programming language for scientific computing.

Face recognition is a challenging problem that involves detecting and identifying human faces from images or videos. One approach to solving this problem is to use PCA for feature extraction. The idea behind PCA is to transform the original high-dimensional image data into a lower-dimensional space while preserving as much information as possible.

Block Diagram:
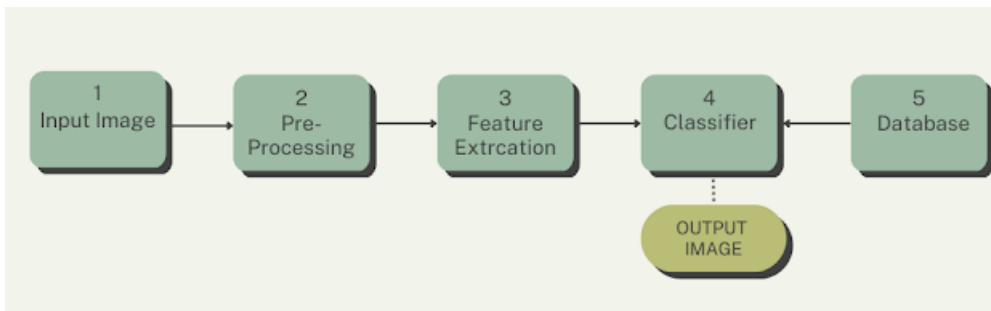
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SPRETajJ0EbpWj1EwkA1jba_5nnDl1DwpA/s980/2.png)

In MATLAB, we can use the Image Processing Toolbox to load, preprocess, and manipulate the facial images. After preprocessing, we apply PCA to the images to extract the most relevant features. This is done by computing the covariance matrix of the images and then finding its eigenvectors and eigenvalues.

The eigenvectors are known as eigenfaces and are a set of characteristic patterns that represent the most important features of the faces. We can use these eigenfaces to project new images onto the eigenspace and perform classification by comparing the distances between the projected images and the training set of known faces.

One of the main advantages of using PCA for face recognition is that it is relatively insensitive to changes in lighting conditions and facial expressions. This is because the eigenfaces capture the underlying structure of the faces, rather than the specific details.
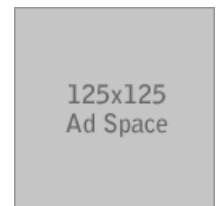
Another important concept in face recognition is pattern recognition. Pattern recognition involves identifying patterns or regularities in data, which can be used for classification or prediction. In the case of

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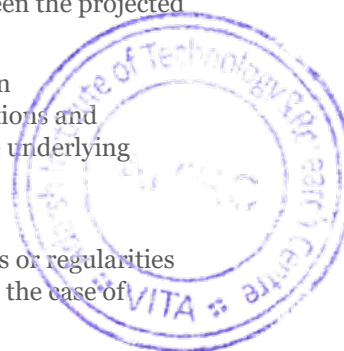
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MATLAB code for LSB Based Steganography(Image into Image &

face recognition, we use pattern recognition to identify the unique features of each individual's face.

In summary, face recognition using PCA is a powerful technique that can be implemented in MATLAB. By extracting eigenfaces and using pattern recognition techniques, we can create a reliable and accurate system for identifying individuals from images. This technology has a wide range of applications, from security and surveillance to marketing and entertainment. As computer vision and machine learning continue to evolve, we can expect even more advanced and sophisticated face recognition systems to emerge.

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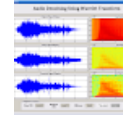
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Image encryption (https://paidproj.blogspot.com/search/mage%20encryption)

Image Fusion (https://paidproj.blogspot.com/search/mage%20Fusion)

Image Negatives (https://paidproj.blogspot.com/search/mage%20Negatives)