

Abstract Proceedings Of  
National Level Conference On Multi-Disciplinary Academic Studies

Date: 02<sup>nd</sup> July 2016

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Message

National Level Conference on Multi-Disciplinary Academic Studies-2016 addresses issues through the seminar and exhibitions, bringing together representatives of all those involved at every fields of business, industry, academic, government and civil.

The National Conference facilitates ideas, information and program possibly to solve. This conference is going to address many issues. I am confident that your deliberations and the outcome of your efforts will raise public awareness about the role and value technology as a tool to promote economic, social and cultural development while addressing the complex issues on your agenda.

I wish all the delegates a successful techno career and take the privilege to welcome you all to this National Conference NLCMDAS-2015.

We look forward for your participation.

With best wishes.

**Dr. K. M. Lakshmana Rao,**  
*Professor & Head  
Civil Engineering  
JNTUH College of Engineering Hyderabad (Autonomous)*

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Message

I am indeed honoured to be invited to the **National Level Conference on Multi-Disciplinary Academic Studies** (NLCMDAS-2016) being organized under the aegis of the Anveshana Education and Research Foundation (AERF). I wish to compliment the vision of AERF aimed at keeping the younger generation abreast of the latest multi-disciplinary trends in technology. We are all aware of the ‘future shock ‘syndrome where what is current today is rendered obsolescent tomorrow. This underpins the paramount need to move in synch with the latest trends in research and technology. Today innovation constitutes the cornerstone of technological advancement. The talent and skills of Indians are being recognized globally. It is conferences like NLCMDAS-2016 that would offer a veritable platform for the dissemination and exchange of ideas. I would appeal to all the participants to make the best use of this opportunity and derive the maximum benefit.

**Col Dr. T. S. Surendra**  
*Director VLE & Chief Adviser,  
Surabhi Institute of Renewable Energy.*

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Message

NLCMDAS-2016 brings the academicians, researchers and industrialists together on a platform for exchange of scientific and technological information and initiates discussion, debate and dissemination of knowledge in the fields of emerging trends in engineering applications and basic sciences. This conference will help the researchers who work continuously towards the development of new ideas for the growth of human kind and to provide solutions to the various research problems. Another step of the conference is filling the gap between formal engineering texts and practically to promote academic interaction and faster collaboration.

We hope that presentation of papers, suggestions and recommendations would help in better understanding of issues. This conference will go a long way in establishing the concept and disseminating the knowledge about the emerging trends in engineering application and basic sciences.

**Dr. Shashi Kiran Jangala,**  
*Professor & Dean,*  
*Farah Institute of Technology.*

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Message

It gives me an immense pleasure to be a part of the conference NATIONAL LEVEL CONFERENCE ON MULTI-DISCIPLINARY ACADEMIC STUDIES NLCMDAS – 2016 provides a platform for researchers and practitioners for presenting their theory and results of technologies in the field of engineering, management and enterprise computing. The NLCMDAS 2016 program consists of keynotes and paper presentations. Similar to past conferences, we are looking forward to innovative research results and high-quality contributions on a broad range of topics in every field such as enterprise computing, commerce and business system architectures, economic aspects of e-commerce, business process management, business intelligence, business services, recommender systems, auctions, semantic web and ontology engineering, mobile business applications, security and trust, social networks, e-government, cloud computing, and software as a service.

We also would express our gratefulness for AERF for providing best platform to present their research articles. Finally, we would like to acknowledge organising committee members for providing full support to AERF (Anveshana Educational and Research Foundation).

We hope that you will enjoy NLCMDAS 2016 in Hyderabad and that you will find these proceedings a valuable source of knowledge in different domains.

**Dr. G. Vishnu Murthy,**  
*Professor & Head of Department of CSE,  
Anurag Group of Institutions.*

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Message

It gives me great pleasure to participate in the National Level Conference on Multi-Disciplinary Academic Studies Nlcmdas-2016 conducted by the Anveshana Educational and Research Foundation.

The conference in 2016 would therefore be organised in a manner that would empower the emerging trends in the electrical, electric and mechanical field and would play a leading role in that engineering field.

We welcome all of you to the conference of Multi Disciplinary. We look forward to the active participation of your national medical association as well as members of your association in the conference.

We hope that you will enjoy the hospitality of Hyderabad and its people.

I look forward to welcoming you in Hyderabad.

**Dr. Laxmanan Raju Bachu,**  
*Principal,*  
*ACE Engineering College.*

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Message

National Level Conference on Multi-Disciplinary Academic Studies-2016 addresses the recent innovative methods and technology involved at every fields of business, industry, academics and government.

The National Level Conference facilitates ideas, information and program possibly to solve industrial and social issues. The conference focuses on “Multi-Disciplinary Academic Studies”. This Conference is going to address many issues. I am confident that your deliberations and the outcome of your efforts will raise public awareness about the role and as a tool to promote economic, social and cultural development while addressing the complex issues of business and community in general.

I wish all the delegates a great successful in their professional and personal life. I take the privilege to welcome you all to this National Level Conference on Multi-Disciplinary Academic Studies-2016.

We look forward for your active participation.

With best wishes...

**Dr. M. Bala Raju,**  
*Principal,*  
*Krishna Murthy Institute of Technology and Engineering.*

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Message

Greeting to all....

Anveshana Educational and Research Foundation understand the social relevance of research and its contribution in developing a body of knowledge and therefore give immense importance to the research output. In order to encourage the researchers in various fields relating to Literature, Journalism, Education, Social Sciences, Management Practices and Engineering.

Anveshana Educational and Research Foundation has been organising conference with different contemporary themes on the regular basis. The focus here is on beld of academics & cutting edge research and innovation through inter-disciplinary activities.

A saying goes like this “Ordinary things done in an extraordinary way make people great”. I hope that the deliberations in the conference will help researchers from academies and industry and the conference will provide a platform for initiating collaborative research projects.

I wish this Conference a fabulous success.....

**Dr. Y. Venkata Ramana Murthy,**  
*Associate Professor,*  
*NALSAR University of Law.*



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Message

Dear Friends and Colleagues,

We would like to warmly welcome you NATIONAL LEVEL CONFERENCE ON MULTI-DISCIPLINARY ACADEMIC STUDIES (NLCMDAS-2016) at NSIC (The National Small Industries Corp Ltd.) Near Radhika X Roads, ECIL, Hyderabad. Organised by Anveshana Educational and Research Foundation. The conference highlights the rich diversity of approaches to understanding academic studies and the range of contexts in which it is taught, studied and used across the globe. We look forward to welcoming participants to share their research and practical ideas and to enjoy an academically and culturally.

I hereby take an opportunity to congratulate the organizing team for conducting a conference National Level Conference on Multi-Disciplinary Academic Studies– (NLCMDAS-2016) successfully.

**Dr. D. Sucharitha,**  
*Director,*  
*Anveshana Educational and Research Foundation.*

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Message

“To improve is to change;  
To be perfect is to change often”.

The only thing that will never change is change itself, and there is neither survival nor progress without coping up with the change. Hence, in every faculty of study, it is very important to know, understand & follow the recent trends, changes, the change agents and discuss them in detail to find various methods & strategies of dealing with them. Today's change is special in the sense that it is happening at a greater pace. In the context the “National Level Conference on Multi-Disciplinary Academic Studies (NLCMDAS-2016)” is a very timely effort and I heartily congratulate Anveshana Educational and Research Foundation for it. I am sure, this conference initiates a platform for academicians, researchers and industry practitioners to share discuss and disseminate their insight & research findings related to the recent trends in the cited fields. It also encourages the fraternity to come out with a number of valuable practices for the economies to face the change proactively and successfully.

I am pleased and feel honoured to be a part of this National Level Conference, NLCMDAS-2016, and I congratulate Anveshana team members for their team work and I Wish AERF would conducting such conferences many in near future.

**Dr. S. Kasthuri Rangan,**  
*Principal,*  
*Sai-Sudhir P.G. College.*

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**REVIVAL OF ISLAM IN TAJIKISTAN FROM 1991 TO 2014 SPECIAL  
REFERENCE TO EXTERNAL INFLUENCES**

**[Paper Id- HIST1001]**

**A Paper Presented by:** Amina Bibi

Centre of Inner Asian Studies, Jawaharlal Nehru University, New Delhi.

**Email Id:** annukhan908@gmail.com

**ABSTRACT**

Tajikistan, one of the five Central Asian countries has an area of 143,100 square kilometers. Sharing its borders with neighbouring countries of China, Afghanistan, Uzbekistan, and Kyrgyztan, Tajikistan is separated from Pakistan by a narrow strip of Afghanistan's Wakhan corridor. Religion and culture have always played an important role in the traditional society of Tajikistan, where Sunnis of Hanafi Sect are in majority. However, there are some practitioners of Salafism, a fundamentalist sect of Islam. Whereas all these Sunni Muslims practice Islam in their daily life, there is a Shia sect called Ismailis who live in the Gorno Badakshan Autonomous oblast. Tajikistan gained the status of the Union Republic within the former Soviet Union in 1929. Earlier it was the Tajik Autonomous Soviet Socialist Republic within the Uzbek SSR which was established in 1924. The country got independence from the Soviet Union in 1991.

The purpose of this research paper is to give an idea about the whole scenario of the revival of Islam in Tajikistan after the independence of the country in 1991. It will mainly focus on the external influences, which create instability in the region with common Islamic cart. Here I will discuss how the major actors Afghanistan and Pakistan fuelled the Tajik civil war. This paper will be having the basic introduction of the country, and I will deal separately the role of major actors like Afghanistan, Pakistan, Saudi Arabia, Uzbekistan, Iran, who initiated the revival of Islam with the making of Madrassas, Islamic University, mosques, and reestablishment of Islamic monuments. It will be having detailed information about the external actor's involvement to spread radical Islamist thought which has affected the young population of the country.

**Keywords:** Radical Islam, Tajikistan, Major Actors, Civil war, Mosques, young population.

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**ISOLATION AND ORPHAN-HOOD IN RUSKIN BOND'S *THE FUNERAL* AND KELWINSIO'S *SLET'S GO HOME***

**[Paper Id- LIT1002]**

**A Paper Presented by:** Dhimant P. Soni  
Research Scholar of JJT University, Jhunjhunu  
**Email Id:** mrudusoni@yahoo.in

**ABSTRACT**

Ruskin Bond and KelwinSio both the writers have written the stories on theme of death. Both the writers have explained the dark and terror of death in the simple way. In both the stories, the small innocent children of early age think about the death. They learn the lesson and tried to adjust in the life without the morale support of parents. This paper also presents the description of the children's pleasant memories with their parents.

**Key Words:** Death, funeral, grief, pain, tears, mourners, grave, cemetery.

**IMPROVES THE DELAY PERFORMANCE BY IMPROVED CARRY INCREMENT ADDER**

**[Paper Id- ECE1003]**

**A Paper Presented by** N. Laxminarayana, Associate Professor  
Jagruti Institute of Engineering and Technology

A composite digital circuit encompasses of adder as a basic unit. The concert of the circuit depends on the design of this basic adder unit. The speed process of a circuit is one of the important performance criteria of many digital circuits which eventually are contingent on the delay of the basic adder unit. Several research works have been ardent in refining the delay of the adder circuit. In this paper we have proposed an improved carry increment adder (CIA) that improves the delay performance of the circuit. The improvement is achieved by incorporating carry look adder (CLA) in the design of CIA contrary to the previous design of CIA that employs ripple carry adder (RCA). A simulation study is carried out for comparative analysis.

**A PANEL ECONOMETRIC ANALYSIS OF DETERMINANTS OF FINANCIAL DEVELOPMENT IN SOUTH ASIAN COUNTRIES**

**[Paper Id- ECO1004]**

**A Paper Presented by:** Md. Abdul Wadud

Ph.D. (Newcastle, United Kingdom) Professor, Department of Economics,  
Rajshahi University, Rajshahi, Bangladesh

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**ABSTRACT**

Financial liberalization process has been advanced in South Asian countries in the early 1990's (Bekaert et al., 2001). Based on the availability of balanced panel data and similarity of proxies of financial development, South Asian countries - Bangladesh, India, Nepal, Pakistan, and Sri Lanka are chosen. Aggregate net flows have been enhanced since the mid-1980's (Hussain and Jun, 1992) and private capital flows rises more than doubled since 2000 (GDF, 2006) in this region. Therefore an empirical assessment of determinants of financial development applying recently developed econometric techniques and consequent policy suggestions could help strengthen financial development and hence contributing to the economic growth in this region.

This paper therefore aims to identify the determinants of financial development in South Asian countries over the period of 1976 to 2013 applying System Generalized Method of Moment (SGMM) method along with pooled OLS and Fixed Effects Model (FEM). Results indicate that maintaining a lower level of inflation is most important determinants of all proxies of financial development in South Asian countries. Results also exhibit that remittance inflows are directly and positively associated with financial development. We also find that economic growth and trade openness impact positively financial development through generating demand for more and new financial services which result in establishing new financial intermediaries capable of meeting new demand for services. Policies leading to maintaining lower inflation rate, encouraging remittance inflows, generating economic growth would have boasting impact on financial development which in turn could have accelerating effect on economic growth in South Asian countries; and thus keeping trade liberalized and easing the flow of remittances should be put in the policy options.

**Keywords:** Financial Development, Pooled OLS, Fixed Effects Model (FEM) and System Generalized Method of Moment (SGMM).

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**INDO – ISLAMIC ART AND ARCHITECTURE: ORIGIN AND  
EVOLUTION (DEVELOPMENT) AN OVERVIEW**

**[Paper Id- HIST1005]**

**A Paper Presented by:** Naziya Khaji & Dr. H. M. Chandrashekhara Shasthri  
Research Scholar, Department Of History, Gulbarga University, Kalaburagi, Karnataka.  
Associate Professor, Department Of History, Vijayanagara College, Hospet, Karnataka  
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**ABSTRACT**

Indo-Islamic architecture is a mixture of Islamic, Persian and Indian architecture. It was introduced by Delhi sultanates during medieval period in India. They established monuments such as Quiab minar, Jamia masjid etc., at Delhi. Later this style of architecture was followed by Mughals in their monuments like Taj mahal at Agra, Moghul gaden, Fatehpur sikri etc., in this way from north india it influenced to south Indian monuments of Gulbarga, Bidar, Bijapur and Raichur Vijayanagara etc., in the architecture of masjid, idgah-maidans, madrasas and darghas.

Hindu and muslims architectural features were amalgamated, This architectural amalgamation was developed during period of Quitb shahis and Adil shahis. Because of this, new architecture came to existence. This architecture was the mixture of Indian and Persian style of architecture this together we call as indo-Islamic art and architecture. `

**Keywords:** Indo-Islamic, Architecture, Deccan.

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**THE MAYOR OF CASTERBRIDGE: REALLY “THE MAN OF CHARACTER”**

**[Paper Id- LIT1006]**

**A Paper Presented by:** S. Pushpa & Dr. M. Ravichandran

Asst. Professor, Dept of English Jeppiaar SRR Engineering College Padur

Asso. Professor, Head, Dept of English Dr. Ambedkar Govt. Arts College Vysarpadi. Chennai

**Email Id:** mails4pushpaa@gmail.com, mravichandaran@gmail.com

**ABSTRACT:**

Thomas Hardy, a Victorian realist, is one among the foremost creative writers, who made significant contributions to the lives of English people and English literature. Much of his work deals with the declining rural society, specially focusing on the struggles of all shades of Wessex peasants. Hardy's characters are unforgettable. They stay enshrined in the hearts of sensitive souls. Hardy's narrative powers, his powerful language, his sense of outrage at social injustice and his depiction of the English countryside make him an all time favourite.

Thomas Hardy's *The Mayor of Caster bridge* is a satirical novel meditating on the development of personal loss during the course of life. The novel is dominantly a satire on political and personal issues. The novel deals with some of the major humanistic issues prevalent in the nineteenth century England. Hardy chronicles the same through the character of Hen chard. Hen chard, the protagonist of the novel travels through different phases in his life where the persons and situations that he comes across outline one or another aspect of social life of nineteenth century England. The carefree attitude, the lack of ambition and a sense of inadequacy that he experiences during the initial stages of his life, his sense of disillusionment with life in general and in matters of love in particular, the irrelevance of the institution of marriage substantiated through the marital life of Hen chard—these are some of the prominent attributes of life of nineteenth century England and Hardy has convincingly portrayed the same through the character of Hen chard.

**Keywords:** Hardy – economic condition – marriage – nineteenth century – The Mayor of Caster Bridge.



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**PERISTALTIC FLOW OF A COUPLE STRESS FLUIDS IN AN  
INCLINED CHANNEL UNDER THE EFFECT OF MAGNETIC FIELD  
THROUGH A POROUS MEDIUM WITH SLIP CONDITION BY  
ADOMAIN DECOMPOSITION METHOD**

**[Paper Id- MATH1007]**

**A Paper Presented by:** V.P.Rathod , Syeda Rasheeda Parveen & Navrang Manikrao  
Department of Sqtudies and Research in Mathematics, Gulbarga University,  
Gulbarga-585106, Karnataka, India

**ABSTRACT**

The present paper investigates the peristaltic motion of a couple stress fluid in a two dimensional inclined channel with the effect of magnetic field through a Porous Medium using slip condition. Long wave length and low Reynolds number assumption are used to linearise the governing equations. The expression for velocity is obtained by using Adomain Decomposition method. The effects of various physical parameters on velocity, pressure gradient and friction force have been discussed with the help of graphs.

**Keywords:** Ado main Decomposition method, Peristaltic transport, Couple stress fluid Magnetic Field, porous Medium and Inclined Channel.

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**M- LEARNING: PARADIGM SHIFT IN EDUCATION**

**[Paper Id- EDU1008]**

**A Paper Presented by:** Dr. Aneesunnisa Begum  
Department of Education, Gulbarga University, Kalaburagi  
**Email Id:** rana\_firdouse@yahoo.co

**ABSTRACT**

*“Knowledge is the food for man because in absence of knowledge  
Man cannot grow his food  
“Education is the pond of knowledge”*

To lay the ground for delivering 21st Century Skills to students, schools must first go beyond simply teaching students to “reproduce” what they are taught. Some might ask: how will it be possible to do so while still covering the syllabus? The solution is to re-focus the curriculum by emphasizing a focused set of knowledge and concepts that can then be taught in much greater depth. Around the world, most students today are still taught using the “Transmission” model of education. Teachers transmit factual knowledge to groups of pupils via lectures, utilizing textbooks and other sources for reference. The problem with this is that while students can memorize information, they don't get much – or often any – scope to apply the knowledge. To be impressed into young minds, knowledge must be applied to new contexts, communicated in complex ways and used to solve problems.

Things are changing around us very dramatically, very quickly. The world is becoming more interconnected, the environment is becoming less stable, and technology is continuously altering our relationship to information. Changing global conditions demand that we rethink what, but even more important, how and where we learn. In response to the challenges we face in the digital age, schools are starting to do education differently.

Mobile learning, or "M-Learning", offers modern ways to support learning process through mobile devices, such as handheld and tablet computers, MP3 players, smart phones and mobile phones. Present paper attempts to highlight the importance of mobile learning for education purposes. It examines what impact mobile devices have had on teaching and learning practices and goes on to look at the opportunities presented by the use of digital media on mobile devices. The main purpose of this paper is to describe the current state of mobile learning, benefits, challenges, and its barriers to support teaching and learning.

The schools that are taking this seriously are still in the minority. But across the world there is a growing global movement towards achieving the vision of 21st century education.

**Keywords:** Mobile learning, 21st century, school education

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**QUALITY OF WORK LIFE**

**[Paper Id- MGMT1009]**

**A Paper Presented by:** Mallappa Sidaram Khodnapur  
Assistant Professor of Department of P.G.Studies in Commerce  
Government First Grade College, Vijayapur (Karnataka State)  
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**ABSTRACT**

The term quality of work life aims at changing the entire organisation culture by humanising work, individualising organisations and changing the structural and managerial systems. It takes into consideration the socio-psychological needs of the employees. It seeks to create such a culture of work commitment in the organisations which will ensure higher productivity and greater job satisfaction for the employees. It influences the productivity of the employees. Researchers have proven that the good quality of work life leads to psychologically and physically healthier employees with positive feelings.

Quality of work life is the degree of which employees of an organisation are able to satisfy their personal needs through experience in the organisation. Its main aim is to create a work environment where employees work in cooperation with each other and contribute to organisational objectives. This paper tries to attempt to identify the effectiveness and commitments of the employees on their job, and to analyse the working conditions and welfare measures prevailing in the work place and to find out the adequacy of compensation benefits and level of satisfaction of employees in the organisation.

**Key words:** Quality, changing behaviour, humanising, commitment and job satisfaction.

**DESIGN OF GRIPPER AND WORKING CYCLE ANALYSIS OF SCARA ROBOTG6**

**[Paper Id- MECH1010]**

**A Paper Presented by:** Sambangi Polinaidu & Surapathi Naga Raju  
Professor in Thandra Paparaya Institute of Science and Technology  
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**ABSTRACT**

The assembly process is combination of several products into a single product. The assembly process affects manufacturing processes very great extent because it is very time consuming and expensive process. The cost of assembly can reach up to 30% of the manufacturing cost. Instability and direction change in assembly process increases the cost of assembly thus the total cost of product is increased very great extent. The production rate decreases with increase in time in assembly process, so the correct assembly sequence is needed to reduce the time and cost of assembly. For the given product assembly model, the sequences and paths of parts is determined by assembly sequence planning (ASP) to obtain the assembly with minimum costs and shortest time. Industries are taking interest in automated assembly system; robotic assembly system comes under category of this assembly system which uses robots for performing the required assembly tasks. This system is one of the most flexible assembly systems to assemble various parts into desired assembly. Present work carried out for a new design of gripper for fixture assembly of SCARA Robot G6.

Working cell dimensions are taken from the robot specification and the calculations of cycle time compared with before cycle time.

**Keywords:** Gripper modified design, working cycle layout, working cycle calculation.

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**SPIDER ROBOT**

**[Paper Id- MECH1011]**

**A Paper Presented by:** Sai Pavan Kumar,  
B-Tech, AVN Institute Of Engineering & Technology, Koheda Road, Patelguda (V), Ibrahimpatnam.  
**Email:** saipavank47@gmail.com

**ABSTRACT**

Our robot is with a new concept of climbing the wall.

A continuous locomotive motion with a high climbing speed of 15m/min is realized by adopting a series chain on two tracked wheels on which 12-16 suction pads are installed. While each tracked wheel rotates, the suction pads which attach to the vertical plane are activated in sequence by specially designed mechanical valves.

This design of this robot is unique that it can climb the walls very easy, this is very specifically made surveillances and spying.

**Keywords:** suction pads, spying, surveillance, remote control, legged mechanism, sliding mechanism, vacuum pump

**LIQUID NITROGEN VEHICLE**

**[Paper Id- MECH1012]**

**A Paper Presented by:** P. Anup & Dharam  
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**ABSTRACT**

A liquid nitrogen vehicle is powered by liquid nitrogen, which is stored in a tank. Traditional nitrogen engine design work by heating the liquid nitrogen in a heat exchanger, extracting heat from the ambient air and using the resulting pressurized gas to operate a piston or rotary motor.

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**DELEGATING PUBLIC AUDITING AND INVIGORATE DATA  
STORAGE IN PUBLIC CLOUD**

**[Paper Id- CSE1013]**

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**ABSTRACT**

In cloud computing the data owners will use storage service to outsource their sensitive data and whenever they need they can download from the cloud but due to the privacy challenges protecting data from outside or inside attacks will leads to problem to the data owner. In order to check remote data the data owner need to verify the data periodically and if any failures or modifications identified, then he has to remove old data and he has to upload new data to the cloud this will leads to the burden on the data owner and if data owner use PDP (Provable Data Possession) model it will audit in single server. To overcome the problems and to remove burden on the data owner, in this paper we are proposing MBR (Minimum Bandwidth re-generating codes) and MSR (Minimum storage regenerating code) to securely repairing the block in cloud.

**Keywords:** Public Auditing, Proxy, Block regenerator, privacy preserving.

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**A STUDY ON TECHNOLOGICAL UP GRADATION  
IN SILK AND HANDLOOM INDUSTRY**

**[Paper Id- MGMT1014]**

**A Paper Presented by:** Dr. Srinivasa Rao Kasisomayajula  
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**ABSTRACT**

The silk and hand loom Industry is one of the productive cottage sectors in India is developing rapidly and lucratively over the past years. Pre-cocoon and Post-cocoon are the two major areas in this industry. The pre-cocoon sector, called farm or sericulture sector, is connected with larval stage to cocoon production stage. The post-cocoon process involves reeling, twisting, dyeing, designing, weaving and trading, which help in the production of silk apparel. However, as far as individual sector is concerned, several constraints are involved. For instance, it is found that the silk reeling and dyeing entrepreneurs face several problems starting from purchase of cocoons to dyeing of yarn. Handloom sector manufactured cotton terry towels and bed sheets. The towels and bed sheets are renowned in the country and have good market in India. The main raw material for the units is cotton yarn, which is procured from local spinning mills and agents. Majority of the cluster units are of integrated type, where the raw material yarn is processed in-house to the final product. The electricity is used for power looms, doubling machines, winding machines, hydro extractors, warping machines and lighting. Wood is used as fuel for boilers, thermic fluid heaters, and chulhas for hot water generation. Using of Auto Loom or Rapier Loom in Handloom Sector, the weavers can increase their productivity and decrease operational cost. The main objective of the study is to find solutions for effluent treatment and for drying the chrysalises through solar energy. Further, it is to verify the relevance, effectiveness, and efficiency of the solar system for the silk reeling and dyeing sectors, besides identifying constraints / bottlenecks and inherent problems during implementation. This study also assesses the actual benefits to be accrued to the beneficiaries in the silk and handloom industry and to provide an idea whether the intended Non-Conventional approach would be beneficial.

**Key Words:** silk and hand loom Industry, solar system, conventional and non conventional methods, Multi-end Reeling Machine unit, Automatic Reeling Machine, Auto Loom / Rapier Loom

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**AN EXPERIMENTAL ANALYSIS OF CONNECTING ROD TO ESTIMATE WITH NON DESTRUCTIVE TEST AND NANO COMPOSITES: MODELING AND SIMULATING THE ENGINE EVALUATION.**

**[Paper Id- MECH1015]**

**A Paper Presented by:** Sangamesh B. Herakal  
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**ABSTRACT**

The main function of connecting rod is to convert linear motion of piston to reciprocating motion of crankshaft. It is the main component of internal combustion (IC) engine. It is the most heavily stressed part of IC engine. During its operation various stresses are acting on connecting rod. Basically the Connecting rod is the intermediate link between the piston and the crank. And is responsible to transmit the push and pull from the piston pin to crank pin, thus converting the reciprocating motion of the piston to rotary motion of the crank. For automotive it should be lighter should consume less fuel and at the same time they should provide comfort and safety to passengers, that unfortunately leads to increase in weight of the vehicle. This tendency in vehicle construction led the invention and implementation of quite new materials which are light and meet design requirements. In this we are identifying the challenges to be addressed for uniformity in load distribution for connecting rod. Analyze the to analyze the best alternative design for the connecting rod through experimentation and simulation. To analyze and carry over nondestructive tests and introducing different Nano composites on connecting rod for better performance and determine the dynamic behavior of connecting rod in engine.



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**AN EXPERIMENTAL STUDY ON THERMAL ANALYSIS AND  
MATERIAL SUSTAINABILITY WITH NANO MATERIAL  
APPROACH IN WELDING TECHNOLOGY**

**[Paper Id- MECH1016]**

**A Paper Presented by:** Mr. Rohan  
Research Scholar, Sri JTT University Rajasthan.

**ABSTRACT**

As the welding is a process which is performed at high temperature. And welding is widely used in every field joints with different parameters. The effect of a gap type of the butt joint on the residual stress is less significant than that of the unfitness of a butt joint. The residual stress change is not significant in butt joint weldments with a gap of 2 mm or 0.3 mm, while it is obvious in unfitness of butt joint weldments with the same gap sizes. for structural material. Due to the heat produced by the process it forms some residual stresses on the material while performing the process, and it depends upon the type of material and process used. In this thesis we are about to use different welding process on few materials with different material properties, along with composite and nano approach and observing the sustainability of the product and select best material for high strength and low weight.

**Key words:** Welding, Composite, Nano materials

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**A REVIEW ON STRUCTURAL AND MODAL ANALYSIS OF SHOCK  
ABSORBER OF MARUTI SUZUKI VEHICLE**

**[Paper Id- MECH1017]**

**A Paper Presented by:** Malleesh Jakanur  
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**ABSTRACT**

Shock absorbers are a critical part of a suspension system, connecting the vehicle to its wheels. Shock absorbers are devices that smooth out an impulse experienced by a vehicle and appropriately dissipate or absorb the kinetic energy. The need for dampers arises because of the roll and pitches associated with vehicle manoeuvring, and from the roughness of roads. Almost all suspension systems consist of springs and dampers, which tend to limit the performance of a system due to their physical constraints. Suspension systems comprising of springs and dampers, are usually designed for passenger's safety, and do little to improve passenger comfort. To meet the current demands of high speed and safety we must designed and developed such a shock absorber which can sustain more and more vibrations and also improves the safety. In this paper a shock absorber is designed and a 3D model is created using CATIA V5 20 software. Structural and modal analysis is done on the shock absorber by changing material. The analysis is done by considering loads, bike weight, single person and two persons. Structural analysis is done to validate the strength and modal analysis is done to determine the displacements for different frequencies for number of modes. Comparison is done for two materials to verify best material for spring in Shock absorber.