PROCEEDINGS OF THE 19TH ISTE TN & P SECTION ANNUAL CONVENTION FOR FACULTY MEMBERS OF ENGINEERING COLLEGES - 2016

Organised by

Dr. N.G.P. INSTITUTE OF TECHNOLOGY

Coimbatore - 641 048

In association with

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) TN & P SECTION

2nd & 3rd December 2016

EDITORS :

Dr. K. Porkumaran

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Dr. M. A. Raja

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Proceedings of the

19th ISTE TN & P section
Annual Convention for Faculty Members of Engineering Colleges - 2016

2nd & 3rd December, 2016

Theme

"Internationalization of Engineering Education Empowering the future"

Editors

Dr. K. Porkumaran

Dr. S. Suresh Kumar

Dr. M.A. Raja

Dr. B. Aruna Devi

Organized by

Dr. N.G.P. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University,
Recognized by UGC & Accredited by NAAC)

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Message from Chairman...

With a sense of pride and privilege I am immensely happy to welcome you all to the 19th ISTE TN & P section Annual convention for faculty members of engineering colleges at Dr. N.G.P. Institute of Technology, Coimbatore to be held on 2nd & 3rd December, 2016. To keep pace with the current educational trends, the convention is aimed to connect faculties from various academic and research institutions for Internationalization of Engineering Education, by knowledge exchange and research collaborations. To achieve this goal, the Institute is following a three-pronged approach:

Connect proactively with the worlds of practice and policy, with academic work nationally and globally.

Nurture a high performance work environment by emphasizing and supporting a climate of autonomy, and team work.

Grow our capacity, but do so in a thoughtful and strategic manner, aiming to have an impact commensurate with our ambitions, and ensuring that we maintain and upgrade the quality of our faculty and our experience.

Putting these three strategies in the core of our efforts, I extend my warm support and wish the convention a grand success.

With regards,

Dr. Nalla G Palaniswami M.D., A.B (USA).,
Chairman, Dr. N.G.P. Institute of Technology
Coimbatore

Message from Secretary...

It is my privilege and honour to invite all of you to the upcoming 19th ISTE TN & P section Annual convention for faculty members of engineering colleges at Dr. N.G.P. Institute of Technology, Coimbatore to be held on 2nd & 3rd December, 2016. Many breakthroughs have been reported in the recent years in the development of Engineering Education. This convention aims to bring academicians and research scholars to exchange and share their ideas on key issues in the current advancements in the field of engineering education.

I extend my warm support and wish that this important convention will provide recent information on technological progress in the field of Engineering and induce the Internationalization of Engineering Education-Empowering the Future with Strengthening, Governing, Leadership & Management, Building Research, Innovation and Entrepreneurship, Improving Quality of Teaching & Ease of Technology, Nurturing Stronger Industry Institute Collaboration & Fostering International Recognitions.

My best wishes for them.

Dr. Thavamani D Palaniswami M.D., A.B (USA).,
Secretary, Dr. N.G.P. Institute of Technology
Coimbatore

Message from Chief Executive Officer...

I am glad to express my greetings and wishes to the 19th ISTE TN & P section Annual convention for faculty members of engineering colleges to be held at Dr. N.G.P. Institute of Technology, Coimbatore during December 2-3, 2016. I am sure that this convention will provide an excellent platform for the researchers and academicians of various organizations and practicing engineers employed in R&D establishment, to share their rich experience in the recent developments and enrichments in the teaching methodologies.

Under the guidance of our Chairman and the Secretary Madam, our institution continues to march on the way of success with confidence. The sharp, clear sighted vision and precise decision making powers of our management has benefited our college to stay competitive.

I would like to congratulate the entire team, for their efforts in organizing and participating in this conference and wishes for a grand successful convention.

Dr. O.T. Buvaneswaran MA., Ph.D.,
Chief Executive Officer
Kovai Medical Center Research and Educational Trust (KMCRET)

Message from
Chairman - ISTE, Tamil Nadu & Pondicerry...

Greetings to all Faculty Members of Engineering Colleges of TN & P Section.

I am enchanted to reach you through the convention proceedings released by Dr.N.G.P. Institute of Technology in the 19th ISTE Annual Faculty Convention.

I just wanted to add my heartfelt thanks and congratulations to the organizers for organizing an inspiring and spectacular event. I expect that the organization of this convention will be absolutely impeccable and all the contributions will be of an amazingly high standard. We will certainly learn a lot and the whole experience will give us fresh hope and new ideas for the future.

"Internationalization of Engineering Education - Empowering the Future" is aptly chosen as the theme for this 19th ISTE Annual Faculty Convention. Science and Technology play a vital role in global sustainability .You the faculty members and teachers , have to take on safe ,healthy and happy global living for future. Indian Society for Technical Education is committed to enhance the innate talents of innovative Engineering among all. Out of box thinking accompanied by research and development is the order of the day and you are expected to match your counterparts worldwide.

I wish the participants of this mega convention shall pledge to develop your soft and hard skills to face the future challenges and relentlessly work towards carrying the human life to scale new heights in terms of prosperous future through engineering advancements.

I believe, the discussions on papers and domain workshops /Keynote events planned in this convention shall surpass the international standard and this convention success shall set a new trend to the future conventions of this category.

I whole heartedly convey my best wishes for the grand success of the convention.

Prof. Dr. A.K. Natesan Ph.D.,
Chairman, Indian Society for Technical Education (ISTE), TN & Pondicherry Section
Hon.Chairman, Excel Group of Institutions, Komarapalayam,
Hon.Chairman, The Kavery Group of Institutions, Mettur, Salem

Message from
Vice President - ISTE, New Delhi...

I am delighted to learn that Dr.NGP Institute of Technology, Coimbatore in Association with Indian Society for Technical Education (ISTE), Tamil Nadu & Puducherry section organizing the 19th ISTE Annual Faculty Convention for Engineering College Teachers under the theme "Internationalization of Engineering Education-Empowering the Future" during 2 -3, December 2016.

First of all I would like to congratulate the organizers for choosing the right theme which is the need of the hour. The year 2016 marks 66 years of constitutional democracy, 26 years of economic liberalization, and 20 years of accelerated educational reform. While each of these is a milestone in itself on the road to India's success, the last of these is perhaps the most momentous for India at a time when the world's oldest civilization is also its youngest nation.

Much of the 20 years of reform - including in aspects of governance- was underpinned by the desire and commitment to emerge as a globally competitive education system. Internationalization has been a powerful driving theme, enabling the Indian higher education sector to both be in consonance with global standards as also emerge a leader in higher education globally. India's higher education institutions are today global in all senses of the word, not least of which is leadership.

I hope this convention gives our teaching fraternity to explore their potential to enhance their Knowledge Skills and Ability to compete with global standard.

I wish the convention very success.

Dr. K. Manivannan

Vice President (Industry &Academia Relations) - IFEES, USA
Vice President - ISTE (New Delhi)
RMK Engineering College, Chennai, India.

Message from Principal...

I am immensely proud to invite you all to the 19th ISTE TN &P Section Annual Convention for Faculty Members of Engineering Colleges (Theme: "Internationalization of Engineering Education: Empowering the Future") jointly organized by Dr.N.G.P. Institute of Technology, Coimbatore and Indian Society for Technical Education TN & P Section.

I trust that this convention, helps build relationships and inculcates a sense of team spirit. This convention serves the empowerment of faculty in various disciplines for engineering educations among both organizers and participants.

The collective contribution of each member of the advisory committee will make this convention a milestone to remember. Dr.NGP IT will leave no stone unturned to make this convention a great success.

I am very thankful to ISTE TN & P Section and other sponsors for their continual and timely support.

Under the able guidance of our Chairman and the Secretary Madam continues to march on the way of success with confidence. The sharp, clear sighted vision and precise decision making powers of our management has benefited our college to say competitive.

I have great pleasure in congratulating the organizers of the convention who have endeavored with enthusiasm in organizing this mega event in our College.

I wish the programme a grand success.

Dr. K. Porkumaran
Principal, Dr. N.G.P. Institute of Technology,
Coimbatore

Message from Organizing Secretary...

Dear Guests & Colleagues,

Warm Greetings from Dr. NGP IT.

We at Dr. NGP Institute of Technology, Coimbatore are indeed privileged and delighted to host this prestigious 19th ISTE TN & P Section Annual Convention for Faculty Members of Engineering Colleges - Dec 2 & 3, 2016 in Coimbatore, the most vibrant Educational Hub of Tamilnadu, India.

We express our sincere thanks to the Officials of Indian Society for Technical Education (ISTE), New Delhi and TN & P Section for giving us an opportunity to host this annual convention and also to the Management of Dr. NGP Institute of Technology for agreeing upon to organize the most important Educational Conclave to redefine the delivery of quality education by Internationalization. Such a herculean task would not have been possible without the Organizing Committee Members, National and International Speakers, Educators and Researchers who have travelled far distance for their active participation & contribution.

Higher Education represents a critical factor in innovation and human capital development and plays a central role in the success and sustainability of the Knowledge Economy. Increased commitment towards International Higher Education (IHE) is evidenced through countries IHE strategies, some of which are reflected in reformed higher education legislations. Hence, this Convention program aims to bring about greater understanding of the issues involved in Internationalization of Engineering Education, sharing of world-wide best practices and experiences etc., by eminent speakers and educators across the globe that can benefit to the country and community. Without financial support, such event would not have been possible and we are very much thankful to the ISTE, New Delhi and TN & P Section, KMCH Trust and various Sponsoring Industries and Organizations for their generous sponsorship and to all other Agencies and exhibitors to make the event most attractive and successful.

On behalf of ISTE and Dr. NGP IT, we invite all of you (academician / researchers / industry professionals / sponsors & exhibitors) to participate in the convention and make it a grand success. Let us join our hands together to share our knowledge and experience that will go a very long way in helping to mould institutions to foster a competent human resource in the International context required for the social, economic and ethical development of the nation. We hope that all of you will enjoy the academic feast, warm hospitality of Coimbatore, rich heritage of the region and culture.

On behalf of the organizing committee, we look forward to welcome you at Dr. NGP Institute of Technology, Coimbatore, Tamilnadu, India in December 2 & 3, 2016 for this exciting event.

Dr. S. Suresh Kumar

Director Research, Professor and Head, ECE
Dr.NGP Institute of Technology, Coimbatore.

Message from Joint Organizing Secretary...

It gives me a great pleasure in welcoming all to exchange their experiences with academic luminaries. I ensure all delegates will benefit substantially from the convention through the presentations by expert speakers and the unique opportunity to openly exchange ideas and insights with one another. This convention provides a common platform for promoting and unfolding new dimensions in the field of technical education. The theme and sub themes of the convention is to aim Internationalization of Engineering Education with liberty to expand its horizon providing a stable enumeration of knowledge of faculty members and researchers. The contribution of all members will make this convention a milestone to remember .

Wishing the event a grand success.

Dr. M.A. Raja
Asso. Prof / ECE, Dr. N.G.P. Institute of Technology,
Coimbatore

Message from Joint Organizing Secretary...

We welcome all the delegates for an opportunity towards information explosion and developments fostering engineering education for new visions of dignity. ISTE envisage to facilitate the quest for knowledge among researchers and faculty members in Engineering Education.

The 19th ISTE Annual Faculty convention embodies an unparalleled nationwide collaboration of the ignited minds in academia and industry. Appreciation to all advisory and national executive members for their contribution in solving the technological challenges of the society with their active participation .

Wishing all good luck towards an enlivening experience of self - discovery and knowledge enriching revelations.

Dr. B. Arunadevi
Asso. Prof / ECE, Dr. N.G.P. Institute of Technology,
Coimbatore

19th ISTE TN & P section
Annual Convention for Faculty Members of Engineering Colleges - 2016

2nd & 3rd December, 2016

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COMMITTEE LIST

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7	**Symposium Proceedings**	Dr.K.Gayathridevi–ECE(Convenor) Ms.S.Kalaivani–ECE Ms.C.S.Manju-ECE Ms.R.Nidhya-CSE Ms.S.Sharmili-BME Mr.V.Suresh –CSE Ms.S.P.Priyadharshini-S&H	Ms.V.Malathi,ECE Mr.V.Ravi, EEE Ms.V.UmaSankari-S & H
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10	**Domain Specific Workshops**	EEE/ECE/BME	Dr.S.Jaganathan-EEE (Convenor) Mr.N.R.Govinthasamy-EEE Mr.C.Ramkumar –BME
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		CSE/IT Engineering	Dr.S.V.Sudha–CSE(Convenor) Mr.S.Parandaman –IT Ms.S.Rajeswari, S& H
		Research Workshop	Dr.R.Thirumalai-Mech(Convenor) Mr.D.Daniel-CSE
11	**Key Note Sessions**	Key Note1	Dr.S.Prabakar-BME(Convenor) Dr.M.Muthulakshmi–ECE Ms.K.S.Thangamani- S&H
		Key Note2	Dr.N.A.Vasanthi- IT (Convenor) Dr.V.Abirami,MBA Dr.V.Ranganayaki-EEE
		Key Note3	Dr.C.Selvakumar–S&H(Convenor) Dr.E.Ranjith Kumar-S&H Ms.R.Jeevitha- S & H
12	**Paper Presentation**	Track 1	Ms.NagalakshmiVenugopal – CSE (Convenor) Ms.S.Nithyadevi-ECE Mr.K.Sathiesh Kumar- MCA
		Track 2	Ms.K.Yasoda-BME(Convenor) Ms.C.Maheswari–EEE Mr.S.S.Karthikeyan-EEE

13	**Transport & Accommodation**	Dr.M.Gopinath-EEE (Convenor) Ms.D.Nirmala –EEE Mr.E.Kannapiran-EEE Mr.R.Sundar-EEE Mr.K.Bharanidharan-EEE Mr.R.Balakrishnan-EEE Mr.A.DineshKumar-CSE Mr.R.Rajkumar-ECE Mr.U.VinothKumar-ECE Dr.S.Sathiyaraj-S & H Mr.M.Saravanabhavan -S&H Mr.P.Chandrasekhar-S&H Mr.S.Ramkumar-Mech Mr.A.G.Karthikeyan-Mech	
14	**Press, Publicity, Purchase, Web Site, Photos and Videos**	Mr.C.Makesh –ECE(Convenor) Ms.M.FahmithaBanu-ECE Mr.N.Manikandan-Mech Mr.M.Prabhu –Mech Mr.P.Ashok Kumar-Mech Ms.V.Ambika, MBA Mr.I.Krishnamurthy –S&H	Mr.V.Murugesan –CC Mr.P.Thiyagarajan -ECE Mr.K.Nirmal-Civil
15	**ISTE Report and MoC (Inauguration Function, Domain Specific Workshops, Key Note Sessions,Panel Discussions , Valedictory)**	Dr.LathaK.Menon-S&H (Convenor) Dr.Roweena B D'couto –S&H Dr.J.Vasanthasena –S&H Ms.KavithaPrabhakaran-S&H Ms.D.VidhyaShankari–S&H Ms.J.Sasirekha-S&H Ms.S.Shenbagapriya-MCA Ms.K.Rajeswari-MBA Ms.R.Bhuvana-BME Ms.M.Krithika-IT Ms.R.Saranya –BME	

About Dr.N.G.P. Institute of Technology

Dr.N.G.P Institute of Technology is another milestone in the growth of the Kovai Medical Center Research and Educational Trust Coimbatore. The institution is approved by the All India Council for Technical Education (AICTE) New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC and Recognized by UGC.The Institute is well equipped with advanced infrastructure facilities and state of art laboratories to meet the requirement prescribed by the AICTE and Anna University. Dr.NGPIT offers higher education in Engineering, Technology and Management as Undergraduate, Postgraduate and Research Programmes.

About ISTE New Delhi

Indian Society for Technical Education (ISTE) is a national, professional, non-profit making Society registered under the Societies Registration Act of 1860.First started in 1941 as the Association of Principals of Technical Institutions (APTI), it was converted into "Indian Society for Technical Education" in 1968 with a view to enlarge its activities to advance the cause of technological education in the country.ISTE has an Executive Council at National level. It has active membership of more than 97286 technical teachers, 5, 66,466 student members, more than 2345 institutional members (including IITs, IISc, NITs and other leading technical institutions), 1166 faculty chapters and 1280 student chapters throughout the country. The major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organizations. Being the only national organization of educators in the field of Engineering and Technology, ISTE effectively contributes in various missions of Union Government.

ISTE Tamilnadu and Puducherry Section

ISTE TAMILNADU & PUDUCHERRY Section is managed by 5 Section Managing Committee (SMC) Members and 20 Executive Council Members under the zeal leadership of Dr.A.K.Natesan, Chairman, ISTE, TN& P Section and Hon. Chairman, Excel and Kavery Group of Institutions. The TN & P section is one of the most vibrant enthusiastic sections, functioning

effectively in almost all technical institutions in TN & P.The major objective is to promote the students and faculty a best platform to apply their technical knowledge leading to innovation and entrepreneurship with life skills . The activities forefront to improve its standard and spread its wings, leaving a tremendous mark on history towards the ISTE nationwide.

THEME:

"**Internationalization of Indian Technical Education:Empowering India"**

Sub Themes:

Strengthening Governance, Leadership andManagement : Governance, Policy, Environment, Finance, Regulation and Reforms.

Building Research, Innovation and Entrepreneurship : Research , Intellectual Property Rights , Knowledge Management and Entrepreneurship Development

Improving the Quality of Teaching and Ease of Technology :ICT Enabled Learning , Teaching and Assessment,Student Support System , Role of Professional Societies & Academia

Nurturing Stronger Industry Institute Collaboration : Skill Development, Industry Collaboration, Excellence, Employability, Expansion, Equity , Nurturing Rural Development and Infrastructure.

Fostering International Recognitions : Ranking , Mobility of Students,Academic Programmes, Accreditation,Quality Assurance ,Role of Private & Foreign Institutions

PROGRAMME OUTLINE

DAY 1 – 02.12.2016 (FRIDAY)		
Timings	**Session Details**	**Resource Person & Topic**
09.00 am	**Registration**	
10.00 am	**Inauguration**	**NGP Conference Center, B Block , Dr.N.G.P.IT**
10.00 -10.05 am	**Welcome Address**	**Dr.K.Porkumaran** Principal & Organizing Chair Dr. N.G.P. IT
10.05 am - 10.10 am	**Presidential Address**	**Dr. Nalla G. Palaniswami** Chairman, KMCH
10.10 am - 10.20 am	**Special Address**	**1. Prof. Dr. A.K. Natesan** Chairman, ISTE, TN & P Section **2. Dr. Thavamani D. Palaniswami** Secretary, Dr.N.G.P.IT
10.20 am - 10.30 am	**Felicitation**	**Dr. K. Manivannan** Vice President (Industry & Academia Relations) – IFEES, USA Vice President, ISTE, New Delhi
		Dr. R. Samson Ravindran Vice Chairman, ISTE, TN&P Section
		Dr.O.T.Buvaneswaran Chief Executive Officer, KMCRET
10.30 am - 10.35 am	**Chief Guest Introduction**	**Dr.S.Suresh Kumar** Director-Research & Head –ECE, Dr.N.G.P.IT
10.35 am - 10.45 am	**Chief Guest Address**	**Shri. Kalyan Hatti** Head- Strategic Business Unit – ICV Buses M/s. Ashok Leyland, Chennai
10.45 am - 10.50 am	**Guest of Honor**	**Dr. R. Murugesan** Former President, ISTE, New Delhi (Former Vice Chancellor, Anna University, Madurai)

10.50 am -10.55 am	**Release of Proceedings**	
10.55 am - 11.45 am	**Conferment of Life Time and ISTE Achievement Awards**	**Life Time Achievement Awards** **ISTE Awards**
11.45 am -11.50 am	**Vote of Thanks**	**Dr. K. Ganesan** Secretary, ISTE, TN & P Section
11.50 am - 12.00 pm	**Tea Break**	**High Tea**
12.00 noon - 01.00 pm	**Key Note Address 1** **West Seminar Hall, A Block, Dr.N.G.P. IT**	**Dr. P. Radhakrishnan** Director, PSG Institute of Advanced Studies, Coimbatore. **Topic: Empowerment of Engineering Education through Research and Advanced Studies**
01.00pm – 02.00 pm	**LUNCH BREAK**	**NETWORKING LUNCH**
02.00pm– 03.00pm	**ISTE Section Managing Committee Meeting** **Board Room, C Block, Dr.N.G.P. IT**	**All ISTE Executive Council & State Section Managing Committee Members**
02.00pm-03.00 pm	**Key Note Address 2** **West Seminar Hall, A Block , Dr.N.G.P. IT**	**Shri. Siva Chipadda,** CEO, The School of Attitude, Singapore. **Topic: Life Skill and Attitude based Education System**
03.00 pm- 04.00 pm	**Domain Specific Workshop** **West Seminar Hall, A Block, Dr.N.G.P. IT**	**1.CIVIL AND ARCHITECTURAL ENGINEERING** **Shri. Krishnan Sathia** Senior Technical Manager M/s. Bentley Systems International Limited Pune

	East Seminar Hall, A Block, Dr.N.G.P. IT	**Shri. Arun Kumar.R** Academic Manager, SAARC Countries M/s. Bentley Systems International Limited Pune **Topic: Advancing infrastructure** **2.ELECTRICAL/ELECTRONICS/BIOMEDICAL/COMPUTER SCIENCE/INFORMATION ENGINEERING** **Shri. Vineeth Vijayaraghavan** Director – Research & Outreach Solarillion Foundation Chennai **Topic : Role of IoT in the India of Tomorrow – Opportunities and Challenges for Faculties and Researchers**
04.00 pm to 04.10 pm	**Tea Break**	**High Tea**
04.10pm - 5.10 pm	**Paper Presentation (Track 1)**	**Avvai Arangam, C Block , Dr.N.G.P. IT**
	Paper Presentation (Track 2)	**Texas Instruments Center, C Block, Dr.N.G.P. IT**
05.30 pm- 6.30 pm	**CULTURAL EVENTS** **NGP Conference Center**	**Cultural Programme**

DAY 2– 03.12.2016 (SATURDAY)		
Timings	**Name of the Expert /Session**	**Topic**
09.15 am -10.15 am	**Keynote Address 3** **West Seminar Hall, A Block, Dr.N.G.P. IT**	**Dr. A. Vasan** Associate Dean, Instruction Division Professor/Dept of Civil Engineering Birla Institute of Technology & Science Pilani – Hyderabad Campus, Hyderabad **Topic : Effective Teaching and Learning in Higher Education**
10.15 am - 11.15 am	**Research Writing Key Note** **West Seminar Hall, A Block , Dr.N.G.P. IT**	**Dr.Shantanu Bhowmik** Head- Research &Projects Professor- Department of Aerospace Engineering Amrita University , Coimbatore **Topic : Emerging Technologies and state of art Research Orientation in 21st century**
11.15 am - 11.30 am	**Tea Break**	**High Tea**
11.30 am - 12.30 pm	**Domain Specific Workshop** **West Seminar Hall, A Block, Dr.N.G.P. IT**	**MECHANICAL, AUTOMOBILE , MECHATRONICS AND THERMAL ENGINEERING** **Shri. Kalyan Hatti** Head-Strategic Business Unit – ICV Buses M/s. Ashok Leyland, Chennai **Topic : New Product Development**
12.30 pm - 01.30 pm	**Lunch**	**NETWORKING LUNCH**
01.30 pm - 02.30 pm	**Paper Presentation (Track 3)**	**East Seminar Hall, A Block , Dr.N.G.P. IT**
	Paper Presentation (Track 4)	**Texas Instruments Center, C Block , Dr.N.G.P. IT**

02.30 pm - 03.30 pm	**Panel Discussion** **Theme: Internationalization of Engineering Education- Empowering the Future** **Sub Themes :** • **Strengthening Governance, Leadership and Management** • **Fostering International Recognitions** • **Improving the Quality of Teaching and Ease of Technology** • **Building Research, Innovation and Entrepreneurship** • **Nurturing Stronger Industry Institute Collaboration** **West Seminar Hall, A Block , Dr.N.G.P. IT**	**Panel Moderator** **Dr. P.R. Muthuswamy,** Principal, Dr.NGP Arts and Science College **Panel Members** **1. Dr. R.Ganesan** Former Director Directorate of Agricultural-Business Development and Dean Tamilnadu Agricultural University (TNAU) Coimbatore **2. Dr. Jayaraman Packirisamy** Executive Director & CEO Sristi Bio-sciences Private Limited & Insight Bio-ventures Private Limited Hyderabad **3. Dr. Shantanu Bhowmik** Head- Research & Projects Professor, Department of Aerospace Engineering Amrita University, Coimbatore **4. Dr. A.Vasan** Associate Dean, Instruction Division Birla Institute of Technology & Science, Pilani Hyderabad Campus, Hyderabad
03.30 pm - 04.00 pm	**Valedictory (West Seminar Hall, A Block, Dr.N.G.P. IT)**	**ISTE Report - Dr. V. Karthikeyan, Joint Secretary, ISTE TN & P Section**
4.00 pm	**Vote of Thanks**	**Dr.M.A.Raja** Associate Professor/ECE Dr.N.G.P. IT
04.10 pm	**High Tea**	

Profile of the Chief Guest

Mr. Kalyan Hatti

Head - Strategic Business Unit - ICV Buses,
M/s Ashok Leyland, Chennai

Mr.Kalyan Hatti, Head – Strategic Business Unit, ICV Buses is serving Ashok Leyland Limited ,the 4th largest Bus manufacturer in the world and 2nd largest Commercial vehicle manufacturer in India. He is currently accountable for all India IC Buses P&L, Sales, Marketing, Operations, Finance, and Program/platform related to ICV Buses. He has led several transformational projects at AL, like achieve 500, an organizational drive of value analysis and value engineering for entire range of trucks and buses yielding an annualized savings of 700+ crores and 200 crores still in pipeline. He founded Attribute Engineering group at AL. He had also led technological development and application of OBDII in India as a Program Manager covering full range of trucks and buses of AL. Key areas of his expertise include engineering attributes that add value to customers and delight them like Noise, Vibration, Harshness (NVH), Ride, Handling, Drivability, feel of steering, gear shift etc. He has been one of the experts in Exhaust and after treatment designs with his contribution in designing Exhaust systems for majority of OEM's in India like Ashok Leyland, Tata Motors, Eicher Motors. He has established a Specialized Exhaust and after treatment design cluster at Ashok Leyland including niche engineering groups like NVH Testing and refinement, Vehicle Dynamics. He had pioneered development of new product development processes. He has 19 years of R&D, Management and transformational projects experience in Automotive Engineering specific to commercial vehicles - Trucks and Buses. He is also specialized in tools like Tear down, clean sheet costing, benchmarking, market evaluation process, Linear price performance etc, critical for cost sensitive markets like India.

Prior to joining Ashok Leyland in Feb 2005, Kalyan Hatti had worked with Indian Army – College of Military Engineering, Pune. Vehicle Integration and NVH at Tata Motors, Bus Engineering and NVH at Eicher Motors. Kalyan Hatti holds a B.E in Mechanical Engineering from Karnatak University Dharwad and M.Sc (Engg). from VTU Belgaum and currently pursuing his PhD. He is an active member of Acoustic Society of India, SAE India .To his credit he has 8 patents in Exhaust System and has published several technical papers. His expertise includes advanced integrated mufflers, Optimization of after treatment devices, Attribute engineering of Trucks and Buses and Value analysis/Value Engineering.

Key Note Topic: New Product Development

Profile of the Guest of Honor

Dr. R. Murugesan
Former President,
Indian society of Technical Education (ISTE), New Delhi

Dr. R Murugesan is a multi-faceted personality committed to serve the needy people with a philanthropic attitude. He had completed his doctorate in Civil Engineering from University of Madras and has nearly 40 years of experience in academia and industry. He had served at various capacities staring from lecturer to the level of principal in various polytechnic and engineering colleges. He was the first Vice Chancellor of Anna University of Technology, Madurai. He had contributed to the mankind through his services as District Governor of Lions club, Coimbatore and he continues the same. He is an active member of various professional bodies.

He strongly believes that economic development of a nation is dependent on the quality of human resource and Higher Education which becomes the basis for the overall human development of the country. The experience and exposure he earned in visiting the World's renowned Universities like Massachusetts Institute of Technology (MIT), Boston, USA, National University of Singapore, Singapore, Nanyang Technological University Singapore, Royal Melborne Institute of Technology (RMIT), Australia and Villonova University, Philadelphia, USA is giving a helping hand in building his academic role with international standard for his brain child Ranganathan Engineering College , promoted and nourished by Ranganathan Rajeswari Charitable Trust, Coimbatore (RRCT).He is actively involved in the Canada India Institution Cooperation project and made remarkable achievements in conducting various technical knowledge and skill development programmes for women, Personality Development Programs for students and staff and summer schools

Prof. Dr. A.K. Natesan

Chairman, ISTE Tamil Nadu & Pondicherry Section

Dr. A. K. Natesan is a visionary Higher Education Administrator. He is presently, Chairman of Excel Group Institutions and Hon. Chairman of The Kavery Educational Institutions. He is presently member of the Academic Council of Anna University, Chennai and the Chairman of ISTE, Tamil Nadu & Pondicherry Section for a term of 5.5 years i.e. 2012 to 31st December 2017.

Being a Society conscious Professor, he started Schools for Child Labor Eradication with the approval of Tamil Nadu Government. He has served in Rotary in the role of Club President, Assistant Governor, Trainer, Major Donor and presently the District Chairman – Literacy & New Generation of Rotary International District 2982. From the year 2000 onwards, he has created a strong network of Rotaractors in hundreds of Colleges in Tamil Nadu & Pondicherry States.

Dr. A. K. Natesan had done his doctorate – Ph.D in Financial Management from the prestigious Bharathiyar University, Coimbatore, Tamil Nadu. He did his MBA at National Institute of Technology Trichy (formerly REC). He has over 30 years of experience in higher Education including as a professor of Management for over 25 years and has been the winner of many awards at national level. He has authored two books Quality concerns in Teacher Education & ICT in Teaching Learning and these books were published by APH Publishers, New Delhi with ISBN Standard and included in the libraries of foreign countries.

Dr. A. K. Natesan organizes Education Guidance and Exhibitions (EDGE) from 2003 onwards in Salem and Erode on Higher Education in which over 100 Colleges of Engineering, Medical, Paramedical, Arts & Science, Polytechnic, B' Schools and other Universities are participating in a healthy competitive spirit and guide the parents and students of this region to gather all information on colleges under single roof.

Dr. A. K. Natesan has been awarded by many meritorious institutions & Professional Bodies. He was awarded twice by state Government and Directorate of Technical Education, Chennai as Best NSS Program officer and awarded 'Kalingarayan Award' from Kongu Nadu Trust sponsored by Pollachi DR. N. Mahalingam. He got many titles and appreciation from many social organizations for his service to the society. He is a major donor level II at Rotary Foundation.

In ISTE, during his tenure he has organized separate ISTE conventions for Engineering and Polytechnic faculty members /students. Also he initiated the concept of ISTE Regional Conference. In the last four years, ISTE has grown in many ways in the state of TN&P. He is a quick and wise decision maker who can take ISTE to a new height by putting forth his lateral thinking and dedicated service.

Profile of the Keynote Speakers

Dr. P. Radhakrishnan

Director - Research, PSG Institute of Advanced Studies
PSG Tech Campus, Coimbatore

The dynamic leader Dr. P. Radhakrishnan, Director, PSG Institute of Advanced Studies, Coimbatore , holds his Bachelors in Mechanical Engineering from Government Engineering College-Trichur, Masters in Machine Tools from IIT - Madras and Doctorate in Mechanical Engineering-from PSG College of Technology . Four decades of his experience includes Teaching, Industry and Research in PSG College of Technology, Vellore Institute of Technology and PSG Institute of Advanced Studies. He is the stanchion in promoting high quality research in science and technology and create opportunities to PSG Institutions to collaborate with universities abroad .He is the initiative to create intellectual properties to inculcate technology based businesses in the thrust areas. His distinguished awards includes the Outstanding Engineers Award by Institution of Engineers and Lifetime Achievement Award from IIT- Madras .

Topic: Empowerment of Engineering Education through Research and Advanced Studies

Mr. Siva Chippada

CEO, The School of Attitude,
Singapore

Mr. Siva Chippada, is the Founder of School of Attitude from Singapore. He is an expert in the areas of Information technology and Telecommunication. He has 3 decades of research and development experience in attitude education. Hi is the author of Life is an Asset, Life is an Asset – Revised, Your Satisfaction is Your Success, Your Satisfaction is Your Success-Revised, Invest in Yourself, Open Up Your Mind and future books Who Is A Right Leader and Life Dictionary. He is responsible for translation and innovative implementation of ATTITUDE based trainings in all Schools, Colleges, Universities, Industries , Corporates, Government Organizations and non-profit Organizations. He is one behind the creative of "ATTITUDE BASED EDUCATION SYSTEM" which creates revolution in education system to regenerate and reshape society in bright spot for the transformation in employment and to build a better tomorrow across the globe.

Gratitude has been received in plentitude from organizations like NLB (National Library of Singapore), WDA (Workforce Development of Singapore), SICCI (Singapore Indian Chamber of Commerce and Industry), Principals, Deans, CEOs, Doctorates, Advocates, Inspectors, Psychiatrist, Editors, Directors from several organisations for the work he has done for last 28 years.

Key Note Topic : Life Skill and Attitude based Education System

Dr. A. Vasan
Associate Dean, Instruction Division
Birla Institute of Technology & Science, Pilani - Hyderabad Campus

Dr.Vasan Arunachalam is currently an Associate Professor in the Department of Civil Engineering & also serves as the Associate Dean of Instruction Division at BITS Pilani, Hyderabad Campus. He has been actively involved in teaching, research and academic administration for more than 2 decades. He holds a B.E. (Civil Engineering) from Adhiparasakthi Engineering College, Melmaruvathur,(Secured University Fifth Rank) , M.E (Structural Engineering) from PSG College of Technology, Coimbatore and Ph.D in Water Resources from BITS Pilani. He pursued his Post-Doctoral studies in the University of Western Ontario, Canada and worked with world renowned water resources expert Prof. Slobodan P Simonovic in the field of Water Resources Engineering and specialized in water distribution systems. His research interests include systems approach to planning and management of complex water resources systems using evolutionary optimization techniques such as differential evolution, genetic algorithms, firefly algorithm, particle swarm optimization, harmony search; water distribution network design optimization and multi criterion decision making methods. With many national and international journals, he has been into many sponsored research projects funded from CSIR & ABG for more than fifty lakhs. He is a senate member and served as the imperative team leader on Quality Assessment & Assurance for the University as a part of Mission 2015, served as Head, Department of Civil Engineering and was instrumental in developing the departmental laboratories in the newly established campus.

Topic: Effective Teaching and Learning in Instruction Delivery System for Education System

Dr. Shantanu Bhowmik

Head -Research & Projects, Prof., Dept. of Aerospace Engineering, Amrita University - Coimbatore
Adjunct Prof., Dept. of Aerospace Engineering, Delft University of Technology- Netherlands.

Dr.Shantanu Bhowmik received the prestigious Brain Pool Korea Research Award from Korean Federation of Science and Technology Societies, Government of Korea in 2013 for his exemplary work. He has been awarded for the prestigious Marie Curie Research Award from European Union 7th Framework Program from European Commission . Dr. Shantanu has been honored with number of international research awards such as DST-DAAD PPP-2000 Research Award (during his doctoral research and part of the doctoral research was carried out at Technical University of Berlin, Germany), Natural Science and Engineering Research Council (NSERC), Visiting Fellow Research Award of Government of Canada as one of the most promising and emerging scientists and the work was carried out at Royal Military College of Canada (under National Defence of Canada) and the Research Award of Prestigious National Academies (National Research Council of USA) for NASA's Vision of Space Exploration to work at NASA-Marshal Space Flight Center. His publications include more than 150 research articles in polymeric composite, nano composite adhesive bonding and surface engineering related to aviation, space and nuclear applications in international journals and international conferences, book chapters, patents and invention disclosures. He holds several number of national and international funded projects. He is an executive member of Asian Polymer Association, Member of American Institute of Aeronautics and Astronautics (AIAA), European Society of Composite Materials (ESCM).

Dr.Shantanu, a dynamic ,young researcher and an academician received his Ph. D. in Mechanical Engineering from Indian Institute of Technology (IIT) Roorkee. Before joining Amrita, Dr. Bhowmik has worked as Associate Professor at Department of Aerospace Engineering, Delft University of Technology, Netherlands, Senior Scientist at Agency for Science Technology and Research (A*STAR) under Govt. of Singapore and Scientist at Royal Military College of Canada (under National Defence of Canada).

Topic: Emerging Technologies and state of art Research Orientation in 21st century

Profile of the Speakers - Domain Specific Workshops

Mr. Vineeth Vijayaraghavan

Director - Research & Outreach, Solarillion Foundation
Founder & Editor - Panchabuta - Renewable and Cleantech in India, Chennai

Mr.Vineeth Vijayaraghavan is a thought leader , strategist, mentor and researcher in the areas of Renewable Energy, Cleantech, Internet of Things , Sustainable Engineering Solutions, and socially sustainable solutions for emerging markets in South /Southeast Asia, Africa with a Master of Science in Electrical Engineering from the Ohio State University, Columbus, Ohio in US .He has been actively involved in various stakeholders discussions, shaping policies and programs related to next generation energy efficiency , energy management , micro and smart grid . Serves as an expert group member for Energy in the Tamilnadu State Planning Commission . He has served with Triad Storage and Synaptris as Business Development Manager. He is the founder, Editor of Panchabuta-Renewable and Cleantech in India, built one of India's largest renewable energy insight and intelligence provider with 8020 articles, 4.5 million page views and 1900 daily news letter delivered over last six years. He was an Alumni of the American Council of Young Political Leaders program. He was nominated from India as a clean energy expert to attend the BRIC Clean energy and Exchange program of the US State Department.

He is responsible for funds and has raised 3.5 million rupees over last twenty four months through outreach programs and research projects.With a team of research assistants , he is a thought leader in policy discussion and research activities with various state, central government and stakeholders consultations. He was the key architect of 'Local Content development framework and methodology for knowledge and skill development' for Renewable energy government deployed program.

Key Note Topic: Role of IOT in the India of Tomorrow - Opportunities and Challenges for Faculties and Researchers

Mr. Krishnan Sathia

Senior Technical Manager,
M/s Bently Systems International Ltd, Pune

Mr.Krishnan Sathia is currently a product manager for the structural line of software at Bentley systems. During his career at Bentley, he has served in various roles including technical support, product development, given presentations and training courses involving STAAD.Pro. He is also the author of the book "Principles of Structural Analysis - Static and Dynamic Loads" which connects theory with practice using STAAD.Pro as a tool. He has been associated with STAAD.Pro for more than 15 years. He has developed specifications for some of the program's modules, implemented the software code for several modules, contributed to the creation of the program documentation and training manuals, and tested and validated the software. He also provides comprehensive descriptions of various methods for generating data that will save even advanced practicing engineers time and enhance their productivity.

He received his Bachelor's degree in Civil Engineering from IIT, Madras in 1985, and M.S. in Structural Engineering from Vanderbilt University, Nashville, Tennessee, USA in 1990. Krishnan also worked as a design engineer at STUP Consultants in Mumbai from 1985 to 1988.

Mr. Arun Kumar

Academic Manager,
SAARC Countries

Mr.Arunkumar holds bachelors from Anna University and served with Softcell Technologies Limited, CADD Centre Software Solutions and SPi Global. He is responsible for professional reference works for the architectural, engineering, and construction (AEC), operations, geospatial, and educational communities.

Topic: Advancing Infrastructure

Profile of the Members - Panel Discussion

Panel Moderator

Dr. P.R. Muthuswamy

Principal, Dr. N.G.P. Arts and Science College

Dr.P.R.Muthuswamy, Principal of Dr. N.G.P. Arts and Science College is presently is the Syndicate member of Bharathiar University, Coimbatore. He served as the President of Association of Principals of Bharathiar University for a period of six years and obtained 25 years of experience in teaching MBA, M.Phil. and Ph.D. Programmes in management and also 7 years as a Principal in Arts and Science Colleges. He is a mathematics graduate from P.S.G. Arts and Science College, and obtained MBA from P.S.G. College of Technology Coimbatore and M.A. Economics from Madras University. He is a Ph.D Holder in Management from Bharathiar University, Coimbatore. He is a recognized guide for Ph.D studies and successfully produced 6 Ph.Ds to his credit. He published 52 Articles in the area of management and related disciplines. He has undergone one year full time faculty development programme from Indian Institute of Management, Ahmedabad. He was the resource person and coordinator for Faculty Development Programmes of various institutions. He has successfully completed executive leadership coaching course through international coaching academy,UK., He has successfully completed the Accreditation Training Programme of NABET of Quality Council of India, New Delhi. He has also undergone a development programme at National Institute of Advanced Studies, Indian Institute of Science, Bangalore.

He worked in various positions which include HoD, Director PG Studies, Administrative Leader and Coordinator for various reputed institutions and Business Schools in Coimbatore. He worked as Dean Health and Hospital Administration at Kovai Medical Centre and Hospital, Coimbatore. He acted as member of Board of Studies, Editorial Committees, Governing Councils, Standing and Research Committees and Advisory Boards of various Institutions. Presently he is the Chairman of Board of Studies for Hospital Management and also a Senate member of Bharathiar University. He was invited twice by The Research Grants Council, School of Business of Hong Kong University of Science and Technology for knowledge exchange in the area of strategic management. He is a member of various Professional bodies which include Coimbatore Management Association, Rotary Club of Coimbatore East, Indian Society of Health Administration and Indian Society of Technical Education. He is presently The Chairman of Ethics Committee of Kovai Medical Centre and Hospital, Coimbatore. He conducted 55 training sessions and workshops on current topics in health care management for health professionals of hospitals. He was invited by various B Schools in India and Abroad for knowledge sharing in management and related disciplines. He was a Coordinator for various conferences of Principals and Academicians in the areas of Institution Building and Higher Education. He presented papers in more than 100 conferences across the country

He is the recipient of awards like Best Teacher Award , Best Educationist Award , Outstanding Rotarian Award , Rotary's Nation Builder Award and Certificate of Excellence in Education. He also held positions like Elected member of All India Management Association ,Executive Committee Member, Coimbatore Management Association ,Director New Horizons, Rotary East, Coimbatore , Affiliation Committees of various Universities etc.,.As a Syndicate Member he is participating in various committees which include Finance Committee, Examination and Disciplinary Action Committee, Establishment Committee, Sports Committee Audit and Accounts Committee etc.,

Dr. R. Ganesan

Former Director, Directorate of Agricultural Business Development
Tamilnadu Agricultural University (TNAU), Coimbatore

Dr. R. Ganesan served as Former Director, Agricultural Business Development and Dean in Agriculture Extension and Rural Sociology in Tamil Nadu Agricultural University. He has a wide experience of 35 years in various fields like Academic, Research and Technology Transfer, Entrepreneurship and Administration. He has received 4 National and 1 International award for his meritorious service and for his mega research grant from National Agricultural Innovation Project (NAIP) -The World Bank. He is serving as expert member and selection committee member in various professional bodies. He has served his service in countries like UK, Australia and US .He has published 175 papers in various reputed journals which includes 5 Books .He is solid pillar and initiator of launching various Agri-Business Ventures like Seed business ventures ,contract farming, venture funding and Agri-Business incubation facilitating the start-ups Women Farmer interest Groups.

Dr. Jayaraman Packirisamy

Executive Director & CEO, Sristi Bio-sciences Private Limited &
Insight Bio-ventures Private Limited, Hyderabad

Dr.Jayaraman Packirisamy is the Executive Director and Co-founder of Insight Bio-ventures Private Limited. He is responsible for translation and success of the ventures, offer value to investors and develop exit strategies. He is also the Executive Director and CEO Sristi Bio-sciences Private Limited, first venture commercialized by Insight Bio-ventures. He holds a Bachelor of Science in Agriculture in TNAU, Master of Business Administration in Marketing & Finance from ICFAI University and Ph.D. in Management- BITS Pilani. He has 15 years of experience in technology management, innovation, biotech M&A deals and Bio regulations. As a research scholar in Technology Management, he has developed competence in Innovation Management and building Bio-Innovation ecosystem. He is responsible for overall business success of Sristi Bio-sciences, while specifically involved in development of market horizon and commercial collaborations. He is also involved in regulatory filings, compliance and product approvals in global markets.

Session Details

TRACK 1				
SESSION:4.10PM-5.10PM				**Date:02.12.2016 Venue: AvaiArangam, C Block Dr.NGPIT**
S.No	**Paper ID**	**Author Name**	**Title of the Paper**	**Organization**
1	E-01	Dr.K.Bagavathy, Dr.A.Sabanayagam	Locus of Control Among Polytechnic &Engg College Students: Institutionalized Versus Non-Institutionalized	Swamy College of Education For Women, Salem Vivekanandha Institute of Engineering & Technology for Women,Tiruchengode.
2	E-10	Mr.V.Saravanan, Mr.C.Babu	Academic Excellence in Engineering Education Through Research and Innovation	Knowledge Institute of Technology, Salem
3	E-04	Mr.K.Uma Shankar, Mr.K.Arun Prakash	Challenges of Using ICT in Teaching Learning Process	Knowledge Institute of Technology, Salem
4	E-13	Dr.S. Durairaj, Mrs. T. Gnanajeya, Mr. R. Suresh	Activity Based Learning Approaches in Handling Engineering Mathemeatics Enhancing Problem Solving Skills	Kings College of Engineering, Thanjavur
5	E-14	Dr. L. Kartheesan	ICT in Engineering Education - Advantages and Limitations	Excel Engineering College, Komarapalayam
6	E-19	N. P. Srinivasan	An Emprical Study on Stakeholder Management in Construction Projects	M. Kumarasamy College of Engineering, Karur.
7	E-15	Dr. S. Durairaj, Mrs.T.Vigneswari, Mr.K. Rajesh	Towards a Better Comprehensive & Continuous Evaluation (CCE) Systen For a Technical Institution	Kings College of Engineering, Thanjavur.
8	E-09	Dr.M.Murugan, Prof.N.LakshmanaPerumal, Dr.B.Chidambararajan	Ignorance and Innocence of Parents of College Students - A Bless or Bliss	Valliammai Engineering College, Kattankulathur,
9	E-16	Ms.V.Ushamani, Mr.S.Boopathiraja, Mr.R.Chandrasekaran, Mr.S.Janarthanan	Improving the Quality of Teaching and Ease of Technology	Thiagarajar Polytechnic college
10	E-22	Mr.S.Vivekanandan,	Evolving Pedagogical Tools of Outcome Based	KPR Institute of Engineering and Technology

		Ms.R.Jeevitha, Ms.C.K.Hemapriya, Ms.R.Revathi	Education	
11	E-23	Mrs.B.Lalitha, Mr.D.Sathishkumar, Mr.A.Mohamed Ibrahim, Mr.K.Sivakumar	Enhancing Student Learning through an Outcome Based Assessment	KPR Institute of Engineering and Technology
12	E-06	Mr.R.Kathiresan, Mr.S.E.Murthy, Mr.S.Mohanvel, Dr.N.SuthanthiraVanitha	A Relative Approach on Better Education System for Future Generation	Knowledge Institute of Technology, Salem
13	E-24	Mr.D.Manoj, Mr.M.Edwinlawrance	Towards An Integrated Model for AcademiaIndustry Interface in India	SSM Institute of Technology, Dindigul
14	E-25	Mr.D.Manoj, Mr.P.Sivasubramanian	Improving the Quality of Higher Education Institutions using Six Sigma	Institute of Engineering and Technology, Dindigul
15	E-26	Dr.T.K.Santhi, Mrs.R.Malarvizhi	Accreditation - Path of Achieving Academic Excellence	Knowledge Institute of Technology, salem

TRACK 2				
SESSION:4.10PM-5.10PM				**Date:02.12.2016 Venue: Texas Instruments Center, C Block,Dr.NGPIT**
S.No	**Paper ID**	**Author Name**	**Paper Title**	**College Name**
1	E-07	Ms.P.Sheela, M.E.,	Improve the Quality of Teaching and Ease of Technology	Thiagarajar Polytechnic College, Salem-636 005
2	E-11	Mr.Balaji.P, Mr.M.Jagadeeshraja, Mr.R.Madhanraj, Mr.G.Balaji	Metacognition-Teaching Students for the Technology That Dosen't Exist	Knowledge Institute of Technology, Salem
3	E-17	Ms.C.Jayanthi, Mr.B.Munusamy, Mr.G.S.Ramesh Kumar, Mr.V.Anandkumar	Nuturing Stronger Industry Institute Collaboration	Thiagarajar Polytechnic college
4	E-30	Mr.Senthilkumar .K.P, Mr.Tamilan .K , Mr.Udhayakumar.K , Mr.Vijaykumar.P	Comparative Study on Lubrication Method Used in electrical Discharge Machining Process of Inconel 718	Excel College of Engineering and Technology, pallakapalayam
5	E-20	Dr. S. Durairaj, Mrs.K.Abhirami	Leadership with Inspiring Policies, Strategies & Directions through effective Networking and Resource Management fostering excellence among the players of Professional Institution– a Case study	Kings College of Engineering
6	E-12	Dr. S. Durairaj, Mrs. T. Vigneswari, Mrs.K.Abhirami	Capacity Building Initiatives Towards Professional Cum Holistic Development Among Engineering Students of Rural Locate	Kings College of Engineering, Thanjavur
7	E-21	Mr.R.Ayanar, Mr.B.Munusamy, Ms.R.Sharmila	Global Set of Competencies for Graduates of Engineering Programs in a Globalization-Governed World	Thiagarajar Polytechnic College, Salem Learning &Development,Rane Institute for Employee Development, Chennai
8	E-29	Prof.V.J.Vijayalakshmi, Dr.V.KumarChinnaiyan,	Outcome Based Education a Boon For Technical Teachers to Handle GEN Z	KPR Institute of Engineering and Technology, Coimbatore

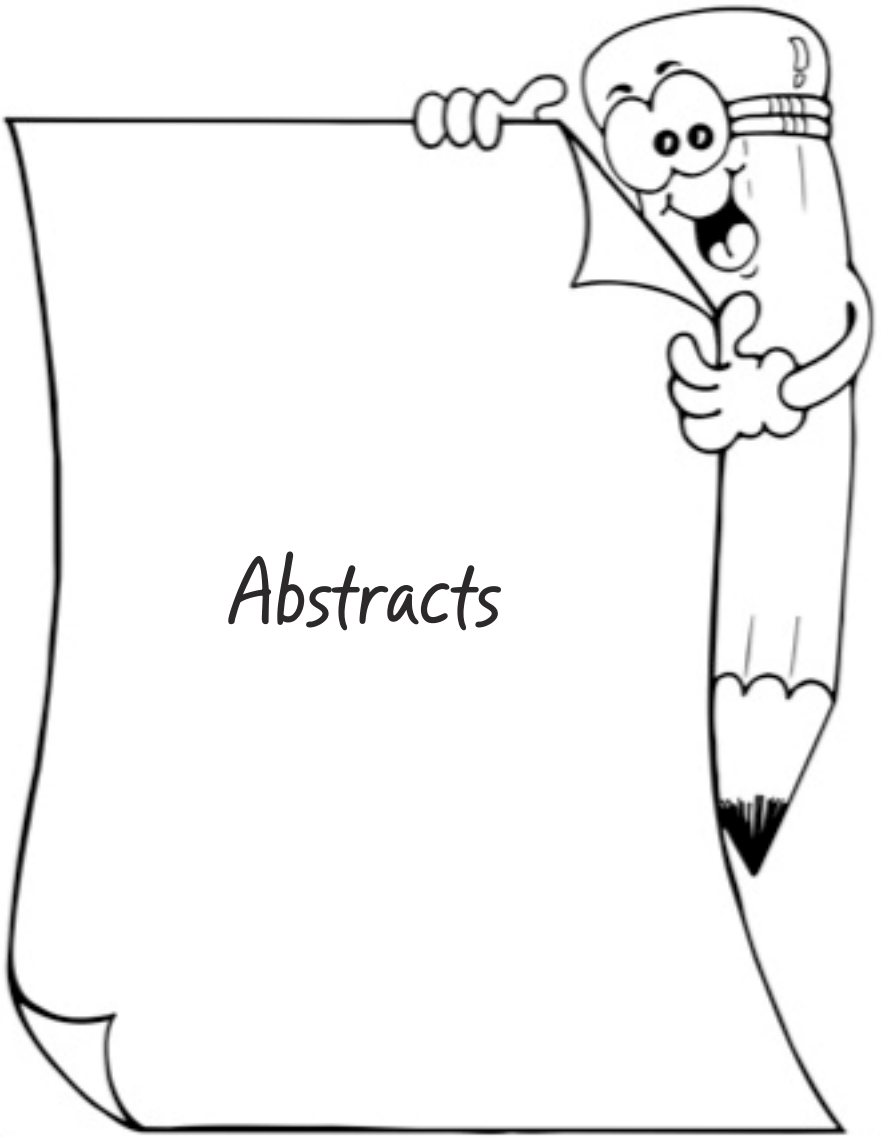
		Dr.R.Uthirasamy, Prof.P.K.Arun Kumar		
9	E-27	Dr.V.Kamaraj, Dr.M.Balaji	Use of ICT in Engineering Education	SSN College of Engineering,Kalavakkam,Chennai
10	E-18	Mr.G.Gunalan, Mr.N.Kamalakanna, Mr.S.Prasath, Mr.P.Kaliselvan	Skill Development in India	Knowledge Institute of Technology
11	E-28	Ms.B.Vidhya, Ms.E.Dhivya, Ms.V.Sangeetha	Strengthening Students' Potential to International Standards	Knowledge Institute of Technology, salem
12	E-31	Mr.V.VigneshAP(Sl.Gr.), Mr.C.Ranjeeth AP(Sr.Gr), Dr.M.SenthamilSelvi, Prof.&Head	Measures to Improve the Quality of Teaching in Education	Sri Ramakrishna Engineering College
13	E-05	Ms.P. Malarvizhi, Mr.N. Jayapandian	Industry Institute Collaboration For Enlightening Engineering Admission By Open-Handed Employability	Knowledge Institute of Technology, Salem
14	E-03	Ms.A.Priyadharshini, Mr.R.Thiyagarajan, Ms.C.Yuvarani, Dr.V.Kumar	World Class Education By Wonderful Teaching Pedagogies	Knowledge Institute of Technology,Salem Shreenivasa Engineering College, Dharmapuri. Knowledge Institute of Technology,Salem Knowledge Institute of Technology,Salem
15	E-08	Ms.Sudha Rani S, Ms.M. Nithya, Mr.Abdullah.I	Internationalisation of Indian Technical Education Empowering India with Respect to International Context and Perspectives	Sri Krishna College of Engineering and Technology, Coimbatore

TRACK 3				
SESSION:1.30PM-2.30PM				**Date:03.12.2016 Venue: East Seminar Hall, A Block Dr.NGPIT**
S.No	**Paper ID**	**Author Name**	**Paper Title**	**College Name**
1	I-04	Mr.M.Mani, Mr.D.Vasanth Kumar, Mr.S.Kumar	Impact of Educational Technologies in Teaching	Dr.NGP Institute of Technology, Coimbatore
2	I-06	Mr.P.Gopi Krishnan, Mr.A.Jaganathan, Mr.N.Manikandan	Effective Teaching Practices in Engineering - A Review	Dr.NGP Institute of Technology, Coimbatore
3	I-05	Ms.Megalatha J., Ms.Rajeswari K.	Education Governance	Dr.N.G.P.Institute of Technology
4	E-32	Ms.R. MuthamilArasi, Ms.S.Priya, Mr. V. Anabalagan	Skill Development in India as a Demograhic Gift	Thiagarajar Polytechnic College, Salem
5	E-36	Dr.K.Senathipathi, Mr.B.Munusamy, Mr.R.Karthikeyan	Industry- Institute Interaction In Technical Institution - Asian Countries	Thiagarajar Polytechnic College, Salem
6	I-02	Dr. S. Mohanavel, Dr. S. Gomathi @ Rohini	Knowledge Management For Globalisation of Technical Education	Dr. N.G.P. Institute of Technology, S.N.R. Sons College
7	I-13	Mr.B.ShreeramMr.S.Rajkumar, Mr.S.Ramkumar	Applying Six Sigma in Technical Education Quality Improvement – A review	Dr. N.G.P. Institute of Technology
8	I-07	Dr.V.S.SreeBalaji, Mr.A.Selvaraj, Mr.R.Vijayakumar	How to Improve Innovativeness of Entrepreneurship	Dr.NGP Institute of Technology, Coimbatore
9	I-08	Dr. J. Srikanth, Dr. S. Mohanavel	Gamification in Education	Dr. N.G.P. Institute of Technology
10	E-33	Mr.KN Karthick,	Strategies, challenges	Knowledge Institute of Technology, salem

		Ms.AndrilAlagusabai	and opportunities – Industry Institute Collaboration	
11	E-43	Ms.K.S.Suganya, Ms.K.Revathi	The use of Knowledge and Cognitive Dimensions in Revised Bloom's Taxonomy: A Case Study	Bannari Amman Institute of Technology, Sathyamangalam
12	I-09	Dr.R.Thirumalai, Mr.A.Natarajan, Mr.S.Venkatesan, Mr.V.Sivaraman	Engineering Education: Opportunities and Threats	Dr.NGP Institute of Technology, SNS College of Technology, Coimbatore, Dr.NGP Institute of Technology
13	E-40	Ms.B.Sowndarya, Ms.S.Lavanya	Indian Education System : Learning-Teaching Methodologies	KIOT,Salem
14	I-15	Dr.K.Ravikumar, Mr.K.Kiran, Mr.M.Suriya Prakash	Fostering Quality Teaching - Policies and Practices	Dr.N.G.P. Institute of Technology, Cbe
15	E-44	Dr. A. Sabanayagam, Mr.MohammedAneesh.Y	Building Research- A Case Study on Design of Electronic Portable devices	Vivekanandha Institute of Engineering & Technology for Women, Tiruchengode

TRACK 4				
SESSION:1.30PM-2.30PM				**Date:03.12.2016 Venue: Texas Instruments Center, C Block,Dr.NGPIT**
S.No	**Paper ID**	**Author Name**	**Paper Title**	**College Name**
1	E-35	Dr.V.Karthikeyan, Ms.A.Gandhimathi, Ms.P.Shanthi	Prospects and Challenges in Learning and Teaching English Language through the Use of ICT	Thiagarajar Polytechnic College, Salem
2	I-01	Mr.A.Saravanakumar, Mrs.Saranya	Work-Life Balance for Women Entrepreneurs	Dr.N.G.P. Institute of Technology,Coimbatore
3	I-17	Mrs.P.Divya, Dr.B.Aruna Devi	Creativity in innovative research education, entrepreneurship and its role in social economical growth	Dr. N.G.P. Institute of Technology
4	E-37	Dr. M.I. Abdul Aleem K. Satish Raja	Research, Innovation, And Entrepreneurship From Engineering Education	PSG Institute of Technology and Applied Research, Coimbatore, Nehru Institute of Technology
5	E-39	Dr.S.Durairaj, Ms.A.Prabha, Ms.R.Sugantha Lakshmi	Gateway to Successful Education Programme through Identification and Assessment of Learner's Potential and Need	Kings College of Engineering, Thanjavur
6	I-18	Mrs.R.Saranya, Mr.C.R.Vijay	Entrepreneurial Education Methods	Dr. N.G.P. Institute of Technology
7	I-14	Mr.Gobinath.K, Mr.Pradeep.V.P, Mr.Karthikeyan.R	Enhancing Quality Education in Engineering	Dr. N.G.P. Institute of Technology
8	E-34	Ms.M.Nithya, Ms.S.SudhaRani, Mr.Karthik.R	Internationalisation of Indian Technical Education Empowering India with Respect to International Collaboration	Sri Krishna College of Engineering and Technology, Coimbatore
9	I-11	Mr.M.Murali Krishnan, Mr.R.Rajendrakumar, Dr.V.Abirami	Retention of faculty in Engineering Institution	Dr. N.G.P. Institute of Technology
10	I-20	Dr.B.Arunadevi, Ms.S.Saranya	Empowerment of women entrepreneurship in India	Dr. N.G.P. Institute of Technology
11	I-10	Mr.K.Kalaiselvan,	Application of Lean Six Sigma quality management	Dr. N.G.P. Institute of Technology

		Mr.S.Rajkumar, Mr.B.Shreeram, Mr.M.Nallusamy	systems for the improvement of Higher Education Institutions- A review	
12	I-03	Mr.V.DhanavelPandi, Ms.K.Umamaheswari	Information Communication Technology (ICT) in Education System	Dr. N.G.P. Institute of Technology
13	I-16	Ms.S. Bhuvana, Ms.G. Thilakavathi, Ms.K. Girija	Information and Communications Technology for Knowledge Centered Education	Dr. N.G.P. Institute of Technology
14	I-21	DrRoweena Belinda D'couto	Using 'self-assessments' as a tool for effective training in placements; to enhance the communication skills among engineering students	Dr. N.G.P. Institute of Technology
15	I-12	Mr.R.Rajendrakumar, Mr.M.Murali Krishnan, Dr.V.Abirami	Factors towards improving the standards of higher education	Dr. N.G.P. Institute of Technology



Abstracts

Paper ID: E-01

LOCUS OF CONTROL AMONG POLYTECHNIC & ENGG COLLEGE STUDENTS: INSTITUTIONALIZED VERSUS NON- INSTITUTIONALIZED

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ABSTRACT:

Locus of control (loc) refers to an individual's perception about the underlying main causes of events in his life. Studying loc among young budding engineers in polytechnic colleges and engineering colleges becomes a very important phenomenon to promote the teaching-learning process in colleges. To empower the existing education system in our state this kind of studies becomes the need of the hour. Similar studies are to be carried out for our different cultured student's different economized students.

The findings will no doubt reveal understanding students in a better manner and thereby one can motivate him/her to achieve both scientifically and their social needs.

Definitely their attitudes towards achieving scientific skills get improved.

Paper ID: E-10

ACADEMIC EXCELLENCE IN ENGINEERING EDUCATION THROUGH RESEARCH AND INNOVATION

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ABSTRACT:

At present scenario engineering education to be tailored to suit the current industry trends. In order to achieve it, the present education system ismodernized from itsconventional teachingmechanism to research and innovation driven academic background. This change will make learning application oriented and dynamic. This paper dealstheneed tomodification in engineering education to achieve academic excellence by means innovation, cutting-edge research and development. Interdisciplinary academic framework has been suggested in this regard

Paper ID: E-04

CHALLENGES OF USING ICT IN TEACHING LEARNING PROCESS

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ABSTRACT:

This article stresses on how ICT helps in improving the quality of education stating that informationand communication technology is an important instrument that can transfer the present isolated, teacher-centered and book-centered learning environment into a student –centered environment. ICT can change the traditional concept of learning process and the components of ICT should be integrated in the education program me in such a way that teaching should be enabled to face the new demands and improve the efficiency and effectiveness of education at all levels in both formal and non-formal settings.ICT not only enhances the learning experience of student but also helps them develop the skill essential to participate effectively in the world of affairs. Knowledge of ICT and skills to use ICT has gained immense importance for today's teacher. The new learning environment developed by the ICT is called Interactive Learning Environment. ICT aims at transferring the old traditional paradigm of learning to the new paradigm of learning. Thus, we must accept the new paradigm and technology in teaching learning process. Educational institutions need to develop strategies, plan to improve teaching-learning process and ensure that all teachers are well prepared to use the new tools for learning. The emergence of the knowledge-based society is changing the global status of education .Now; it is the time to develop a new knowledge-based global society. In developing countries like India, there are many untrained teachers in this area. The new ICT would be able to reach these teachers and can provide quality education all around the globe.

Keywords: Communication, ICT, interactive learning, pedagogy, technology.

Paper ID: E-13

ACTIVITY BASED LEARNING APPROACHES IN HANDLING ENGINEERING MATHEMATICS ENHANCING PROBLEM SOLVING SKILLS

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Kings College of Engineering, Thanjavur

[2,3] Assistant Professor, Department of Mathematics, Kings College of Engineering, Thanjavur

ABSTRACT:

In today's technology driven society, greater demands have been placed on individuals to interpretand use mathematics to make sense of information and complex situations. The study of mathematics equips students with knowledge, and habits of mind that are essential for successful and rewarding participation in such a society. But in reality, It is found that many of the students are affected by phobia of mathematics. They feel that mathematics seems to be a tough curb and some of them approach the subject theoretically by memory and reciting manner. Most of the student community is unaware about the application of mathematics in the day to day life. By perceiving this, an activity based module for teaching mathematics for engineering students has been formulated and executed. The foresight of this module is weeding the fear in the subject from the students and to make them realize the easy way to understand and develop the mathematical skills among them. The outcome of the event unambiguously proves that progression has been made at a constant pace in achieving the objective.

Paper ID: E-14

ICT IN ENGINEERING EDUCATION-ADVANTAGES AND LIMITATIONS

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ABSTRACT:

India has made a rapid progress in Engineering and Technical Education in recent times. Teaching and Learning Process has seen significant changes in Education System. Information and communication technologies (ICT) which include radio, Television and new digital technologies such as computers, mobile phones, ipods with internet facility have become power fill enabling tools for educational change and reforms in all aspects of education..For the past twenty years the use of ICT has fundamentally changed the practices and procedures of education, ICT has the impact buthas not been as extensive as in other fields. Education is a very socially oriented activity and quality education has traditionally been associated with strong teachers having high degrees of personal contact with learners. The use of ICT in education lends itself to more student-centred learning. But with the world moving rapidly into digital media and information, the role of ICT in education is becoming more and more important and this importance will continue to grow and develop in the 21st century. However, introduction of different ICTs in different educational settings all over the world suggest that the full realization of the potential educational benefits of ICTs is not automatic. This paper highlights the various impacts of ICT on contemporary higher education and explores potential future developments. The paper argues the role of ICT in transforming teaching and learning and seeks to explore how this will impact on the way programs will be offered and delivered in the universities and colleges of the future. It also discuss the advantages of using the ICT in Education and the limitations while using it.

Keywords: Online learning, Information Communication Technologies, higher education, Networks

Paper ID: E-19

AN EMPIRICAL STUDY ON STAKEHOLDER MANAGEMENT IN CONSTRUCTION PROJECTS

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ABSTRACT:

The intent of this study is to study the role of stakeholder management in construction projects. The construction companies involving in major infrastructure projects mostly tend to have a number of stakeholders. In such situations, managing the stakeholders and getting adequate support from them becomes necessary. Therefore this paper made an empirical study on their management through questionnaire survey taken among various owners. Engineering and managerial personnel involved in different construction projects. This paper has critically identified the major factors influencing stakeholder management in construction projects and analyzed those factors using statistical tools. The principle components analysis and mean score analysis using frequency distribution method of descriptive statistics have been carried out for the identified major factors influencing stakeholder management in construction projects.

Keywords: Stakeholders, Stakeholder management, Construction projects, Questionnaire survey, Managerial personnel, Statistical tools, Principle component analysis.

Paper ID: E-15

TOWARDS A BETTER COMPREHENSIVE & CONTINUOUS EVALUATION (CCE) SYSTEM FOR A TECHNICAL INSTITUTION

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Kings College of Engineering, Thanjavur

[2] Associate Professor, Department of Information Technology,
Kings College of Engineering, Thanjavur

[3] Associate Professor, Department of Computer Science Engineering,
Kings College of Engineering, Thanjavur

ABSTRACT:

Examination system plays an imperative role in accessing the outcome of prescribed courses. All the technical institutions in one or other way measure the performance of the students through a proper evaluation system. Even more, the institution itself is assessed by the overall performance of the students. The method in which the examinations are conducted varies in factors such as duration, Question paper standard, scheme of evaluation etc. All the examination systems have their merits and demerits. This paper presents about the case study of a comprehensive and continuous evaluation (CCE) followed in a technical institution and discuss about the problems faced and remedies done.

This study will help to improve the examination system

- Identify and implement strategies for making the examination system effective.
- Identify the critical elements that affect the examination system.
- Identify issues of students and faculty members and respond effectively.
- Use ICT resources to encourage effectiveness and reliability.

Paper ID: E-09

IGNORANCE AND INNOCENCE OF PARENTS OF COLLEGE STUDENTS-A BLESS OR BLISS

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[1] Vice-Principal & Professor, Department of Electronics and Communication Engineering,
Valliammai Engineering and College, Kattankulathur

[2] Professor & Head, Department of English and First Year Chief Coordinator,
Valliammai Engineering and College, Kattankulathur

[3]Principal, Valliammai Engineering and College, Kattankulathur

ABSTRACT:

The paper discusses the common attitude of parents of college students and in particular the parents of students studying in engineering college in lieu of the recent trends and atmosphere in the engineering colleges. The authors discuss the general ways and means of ignorant and hence the innocent way of supporting their wards without knowing the adverse effects in future, which not only will affect the students, but their career. The paper also provides the general guidelines exclusively for the parents to be adapted during the period of the education of their wards, which will help all the stake holders, a comfortable teaching and learning atmosphere.

Paper ID: E-16

IMPROVING THE QUALITY OF TEACHING AND EASE OF TECHNOLOGY

V.Ushamani[1], S.Boopathiraja[2],R.Chandrasekaran[3], S.Janarthanan[4]
[1,4] Lecturer (Sr.Gr), Textile Tech, Thiagarajar Polytechnic College
[2] Managing Partner, Sewvel Traders, Erode
[3] HoD, Textile Tech (MMFT), Thiagarajar Polytechnic College

ABSTRACT:

This paper considers contemporary technologies to improve the quality of teaching in education and application of below described methods and techniques in the training of future teaching methods and communicational technologies, remote technologies, e-learning, activity-based learning.

Information and communication technologies (ICT) have become commonplace entities in all aspects of life. Across the past twenty years the use of ICT has fundamentally changed the practices and procedures of nearly all forms of endeavour within business and governance. Education is a very socially oriented activity and quality education has traditionally been associated with strong teachers having high degrees of personal contact with learners. The use of ICT in education lends itself to more student-centred learning settings. But with the world moving rapidly into digital media and information, the role of ICT in education is becoming more and more important and this importance will continue to grow and develop in the 21st century. In this paper, a literature review regarding the use of ICTs in education was provided. Effective use of ICT for Education, along with ICT use in the teaching learning process; quality and accessibility of education; learning motivation. Learning environment. Besides, an overview of the ICT and scholastic performance.

Paper ID: E-22

EVOLVING PEDAGOGICAL TOOLS OF OUTCOME BASED EDUCATION

S.Vivekanandan[1], R.Jeevitha[2],C.K.Hemapriya[3], R.Revathi[4]
[1] Assistant Professor (Sr.G), [2,3,4] Assistant Professor ,
KPR Institute of Engineering and Technology, Coimbatore

ABSTRACT:

Outcome based education is a reform approach to teaching / learning in which the decisions about the syllabus are determined by the outcomes that the students demonstrate at the end of the course, this makes the system as recurring education transformation model. Having decided lecture plan for course curriculum, next step is to decide the appropriate methodology for the betterment of learning process inside the classroom. Key configurations of such processes are classroom reforming, program alignment and system transformation. Varied issues including student level of understanding, outcome attainment level and time management must be considered. Various pedagogical tools such as one minute paper presentation, providing handouts with recent trends, subject related videos, incorporating more number of case studies etc., help the learning progress exponentially.This paper makes an attempt to emphasize the use of evolving pedagogical tools in favor of outcome based education.

Keywords: Outcome based education, Recurring education transformation model Pedagogical tools.

Paper ID: E-23

ENHANCING STUDENT LEARNING THROUGH AN OUTCOME BASED ASSESSMENT

B.Lalitha[1], D.Sathishkumar[2],A.Mohamed Ibrahim[3], K.Sivakumar[4]
[1,2] Assistant Professor (Sr.G), [3,4] Assistant Professor, Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Coimbatore

ABSTRACT:

The assessment is defined as "the systematic collections of information about student learning using the time, knowledge, expertise and resources available, in order to take decision about how to improve the learning". However, assessment is an integral part of the learning process and ultimately, should aim to improve the quality of student learning. This paper will introduce the purposes of assessment, define the characteristics of good assessment, differentiate between the different methods of assessment and help to think about how assessment can benefit for the courses. It will help to review and revive your approaches to assessment, thus enabling to construct a more fertile learning environment and a more rewarding learning experience for both faculty and students. The higher education is too often dominated by the old methods of assessment, most likely unseen time-constrained written examinations, and lecturer/tutor-marked essays/reports. The problem is using the same assessment process can disadvantage the same candidates time after time, because individual students have individual strengths and weaknesses. And student success in higher education can often becomes dependent on mastering those same old assessment formats. So, while exams and essays should and will continue to play their part in third level education, by using a variety of assessment methods you can assess a range of skills, get more reliable and balanced results, and hopefully produce more rounded and more employable graduates.

Keywords: Making Assessment more Effective, Planning and Designing Assessments, Reflecting upon Assessment, Types of Assessment

Paper ID: E-06

A RELATIVE APPROACH ON BETTER EDUCATION SYSTEM FOR FUTURE GENERATION

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[1,2,3] Assistant Professor, [4] Professor, Department of Electrical and Electronics Engineering, Knowledge Institute of Technology, Salem

ABSTRACT:

India Education system facilitates the people to learn, gain knowledge, inculcate skills and impart values as an effective tool for bringing social change through community development. But, in-spite of efforts undertaken to provide education at right time is often criticized for being based on rote learning rather than enhancing problem solving skill sets. Skill and knowledge are the engines of the economic growth and social development of a country. Therefore this paper discusses the bridge gap between the knowledge based education and skill based education of Indian education system.

Keywords: E-Learning, Special education classrooms, Assistive technologies, Technology, Force Multiplier, Cooperative Learning

Paper ID: E-24

TOWARDS AN INTEGRATED MODEL FOR ACADEMIA-INDUSTRY INTERFACE IN INDIA

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SSM Institute of Technology, Dindigul

ABSTRACT:

Academia-industry relationship is not like that of technology donator-acceptor, but is of interactive and collaborative nature, acknowledging and ensuring mutual respect for each other's role and contributions with an eye to attaining the true purpose of such relationships, namely, bringing about research-outcome synergy. Indeed, academia-industry interactions are a system that requires active and collaborative participations of all the stakeholders.

This paper examines various issues associated with academic institutions and industry collaboration with special attention to the nature of resources and potentialities of stakeholders in the context of knowledge management. This paper also explores the barriers of academia-industry interaction. It identifies potential areas where industry's participation with academia would be most effective for synergism. Lastly, this paper proposes an integrated model of several new collaborative approaches that are possible, mainly in the Indian scenario to strengthen academia-industry interface.

Keywords: Academia-industry, interface, knowledge economy, technology transfer

Paper ID: E-25

IMPROVING THE QUALITY OF HIGHER EDUCATION INSTITUTIONS USING SIX SIGMA

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SSM Institute of Technology, Dindigul

ABSTRACT:

Education sector is emerging as a major commercial activity in the nation. Globalization, growing competition among institutions, emergence of new technologies, changing socio-economic profiles of nations and knowledge driven economies have created a scenario where quality in education is beginning to occupy the centre stage. There is a need to bring clarity and a common understanding of higher education in India and at the same time it is also required to develop different kinds of model to improve the quality of higher education. In industry, a company may look at defects in its final manufactured products, whereas, in engineering education, a defect relates to falling pass percentage among students. This paper reviews the implications of applying Six Sigma methodology over a technical institute to increase the passing rate of students.. This article provides documented evidence of Six Sigma implementation in technical education in India and will yield a great value to academics, consultants, researchers and practitioners of Six Sigma.

Paper ID: E-26

ACCREDITATION-PATH OF ACHIEVING ACADEMIC EXCELLANCE

Dr.T.K.Santhi[1], R.Malarvizhi[2]

[1] Associate Professor, Department of English, Knowledge Institute of Technology, Salem

[2] Associate Professor, Department of Mathematics, Knowledge Institute of Technology, Salem

ABSTRACT:

Accreditation is the process of reviewing colleges, universities, institutions and programs to judge their educational quality and how well they serve students and society. It is both a process and a status. It assures and improves higher education quality, assisting institutions and programs using a set of standards. This article tries to identify the noteworthy role played by various statutory bodies constituted and expanded by the Indian Government for the purpose of quality assurance and attainment of sustainable excellence in the Indian higher education system. Accreditation has now become vital for all universities in India except those created through an act of Parliament. Without accreditation, these institutions have no legal entity to call themselves a University and award 'Degrees' which are not treated as valid for academic/employment purposes. Since quality assurance is an evolving issue the emphasis is deliberately given to excellence and quality as the distinct constituents of higher education in India. This is done through a combination of self and external quality evaluations, endorsements and sustenance initiatives. This paper also highlights existing key issues of the accreditation process and vital points that need to be incorporated to generate insights about the future of accreditation.

Paper ID: E-07

IMPROVE THE QUALITY OF TEACHING AND EASE OF TECHNOLOGY

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ABSTRACT:

Quality engineering education provides qualified human resources to the nation, training the graduates for a research career for the uplift of society. The successful completion of an engineering graduate depends on the quality of teaching in engineering colleges. Successful engineering education depends on the quality of engineering institution, quality of programmes/ branch of specialisation offered by the institution, quality of faculty availability, quality of teaching learning process, quality of management, and quality of students. The successful engineering graduates form a world –class work force that can augment the development of the society or country. Everyone agrees that quality in higher education is important but only a few know how to deliver quality in higher education. Despite the attractive features of ICT in education, and the many advantages that successful use of these technological resources can offer to the education sector in general, their use in engineering educational content delivery is still lagging behind other educational disciplines. Professional societies from a living matrix where minds meet and engage and where trusted colleagues pool their knowledge, helping each other to glimpse and plumb larger forces at work, to see connections among events, and imagine the future. In this paper we look closely at the challenges that face full utilization of these technology resources in engineering educational content delivery, the great opportunities that ICT can offer teaching and assessment, student support system, role of professional societies and academia True education is training of both the head and the heart. We need to compete for knowledge and wisdom, not for grades.

Paper ID: E-11

METACOGNITION- TEACHING STUDENTS FOR THE TECHNOLOGY THAT DOESN'T EXIST

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Knowledge Institute of Technology, Salem

ABSTRACT:

Engineering education not only being the activity of teaching knowledge and principles related to professional practice of engineering but also decides the future of the nation. Since the professionals graduating from the education make policies, innovate technology and create jobs. Deficiencies in engineering education have been exhaustively enumerated in recent years. Engineering colleges and professors have been told by countless panels regarding the un-employability of the graduates due to lack of skill sets (2). Industry complaints about skill deficiencies in engineering graduates with good academic performance records. the worldwide adoption of outcomes-based engineering program accreditation, and findings from both cognitive science and thousands of educational research studies showing serious deficiencies in traditional teaching methods have all provoked calls for changes in how engineering curricula are structured, delivered, and assessed (2). Students learn in many ways, byseeing and hearing; reflecting andacting; reasoning logically andintuitively; memorizing andvisualizing and drawing analogiesand building mathematical models;steadily and in fits and starts (1).

Today, more than ever before, the Technologyis continuously shifting — growing and expanding in ways few have been able to anticipate. Moreover the underlying hurdle in the education, is the duration in which a technology becomes obsolete.

Paper ID: E-17

NURTURING STRONGER INDUSTRY INSTITUTE COLLABORATION

C.Jayanthi[1], B.Munusamy[2],G.S.Ramesh Kumar[3], V.Anandkumar[4]
[1,2,3] Lecturer, Textile Tech, Thiagarajar Polytechnic College
[4] Managing Partner, Sri Shanmuga Spinners, Coimbatore

ABSTRACT:

India is steadily shifting to a fast tract of economic and industrial development, which leads to mounting demands on education and calls for a highly diversified human resource. The shift from low tech to high tech, national to global, production to service economy, state to private sector, and the changing occupational patterns create demand for a new work force with a different skills.

If all the available human resources are to be discovered and developed, a system of education based on sound principle of social justice is very essential. Human development is the end economic growth a means. So, the purpose of growth should be to enrich people's lives. But far too often it does not. The recent decades show all too clearly that there is no automatic link between growth and human development. It is only in recent years that steps have been taken in India to establish linkages between academia and industry. The initial results are encouraging. However, there is need to exercise caution while signing a 'Memorandum of Understanding' (MoU). The programmes need to be meticulously planned and organised, with effective monitoring mechanisms, and with realistic time-scheduling.

Paper ID: E-30

COMPARATIVE STUDY ON LUBRICATION METHOD USED IN ELECTRICAL DISCHARGE MACHINING PROCESS OF INCONEL 718

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ABSTRACT:

In the research work, a study is made to compare and optimize the process parameters of both wet and near dry Electrical Discharge Machining process. In this work, INCONEL 718 is used as a workpiece material and copper is used as a tool material. In this research the Response Surface Methodology is used for planning and investigates the experiment. The input parameters pulse on time, current, lifting time and remaining parameters are consider as constant on responses like Material Removal Rate, Tool Wear Rate and Surface Roughness for both wet and near dry electrical discharge machining process respectively. In RSM, Box Behnken design was used to plan the experiment. Both the process are studied and optimized using RSM and the design is carried out with the help of design expert software. After optimisation the design is validated with analysis of variance ANOVA. From this study, the experimentation of near dry EDM is proved to be most environment friendly process and highly effective compared to wet EDM process. From this research, it is found that, the near dry EDM process gives the good surface finish and more economical process compared to wet EDM process.

Keywords: Near-Dry EDM, Inconel 718, Wet EDM, Ra and MRR.

Paper ID: E-20

LEADERSHIP WITH INSPIRING POLICIES, STRATEGIES & DIRECTIONS THROUGH EFFECTIVE NETWORKING AND RESOURCE MANAGEMENT FOSTERING EXCELLENCE AMONG THE PLAYERS OF PROFESSIONAL INSTITUTION-A CASE STUDY

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ABSTRACT:

Educational institutes play a vital role in knowledge acquisition and transfer process imbibing the culture of research and life-long learning in the young minds. Accomplishing excellence in professional education requires futuristic plan and leadership with collaborative efforts towards desired accomplishments, producing lasting results. Leadership plays a significant role and drives the progression of the institution and determines the quality of education and progression among its players. Leadership enables and supports the overall interest, outlook, unity and cooperation of staff and students of the organization and promotes empowerment of the individuals towards progression. Above all, the Leadership will embody and add value to the mission and sense of purpose and Vision of the Institution. Transformation and growth of an individual will contribute to the growth of the society. The paper presents an overview on inspiring policies and strategies adopted at the author' institute.

Paper ID: E-12

CAPACITY BUILDING INITIATIVES TOWARDS PROFESSIONAL CUM HOLISTIC DEVELOPMENT AMONG ENGINEERING STUDENTS OF RURAL LOCATE

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ABSTRACT:

Technical capacity building has become a lever for economic and social development which is currently recognized as an important priority in the global engineering community. Capacity Building is pursuing this priority on several fronts. The development of the nation lies in the hands of young India. As a institution offering engineering education, we have realized our responsibility in building a stronger India. As most of the students hail from rural background, our conscientiousness becomes even huger. Hence we are acting as more than an incubator to prepare our students to face the competitive industrial world. A capacity building model followed in our institution to support our students in all means and ways to proceed towards a better placement opportunity is given in this work. The statistics given in the paper reflects the triumph of the program.

Paper ID: E-21

GLOBAL SET OF COMPETENCIES FOR GRADUATES OF ENGINEERING PROGRAMS IN A GLOBALIZATION-GOVERNED WORLD

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ABSTRACT:

This paper deals with the notion of having a converged set of abilities of graduates from engineering programs for a diverse yet globalized world. It attempts to provide answers to questions like: What are the needed hard and soft skills (abilities, attributes and competencies) expected of graduating engineers? What transformation do engineering education programs have to experience to accommodate advancements in technology and globalization? What is the role and scope of each of the constituencies of engineering education for a globalized world? What role does globalization play in the generation of modern and industry-ready engineers? What kind of educational reform is needed for engineering programs and institutions? What are the challenges of globalization in educating the engineers of tomorrow? What impact does globalization have on Quality Assurance systems and Accreditation processes? The paper concludes with a set of recommendations to the different constituents for the generation of responsive and globally-ready engineering graduates.

Keywords: Technical Education, Professional Development, Pre-Service Teacher Preparation, Curriculum, and Pedagogy.

Paper ID: E-29

OUTCOME BASED EDUCATION A BOON FOR TECHNICAL TEACHERS TO HANDLE GEN Z

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ABSTRACT:

Outcome-Based Education (OBE) is a method of teaching that focuses on what students can actually do after they are taught. All curriculum and teaching verdict are made based on how best to facilitate the preferred outcome. This leads to a forecasting process that is different from the traditional educational forecast. The swing from traditional methodology towards OBE makes teaching more challenging process. The desired outcome is first identified and the curriculum is created to support the intended outcome. Bloom's taxonomy delineates the skill levels required for any education at any level. This paper describes the system to streamline higher education that can produce graduates who are well equipped and suitably qualified for a continually changing complex global environment.

Keywords: ABET, Bloom's Taxonomy, ICT tools, Outcome-Based Education.

Paper ID: E-27

USE OF ICT IN ENGINEERING EDUCATION

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ABSTRACT:

In the past few years there is a desire to change the prevalent passive teaching mode and to involve students in active learning enhanced by technology to help students visualize, hypothesize, and improve their intuition about complex concepts. Thus there is a growing need to introduce Technology Enabled Learning. For teaching and learning there are number of web tools available. The web tools such as screen casting, blog, portals, Real Simple Syndication (RSS) and twitter will be discussed in this paper. A screen cast is a digital recording of computer screen output that helps in demonstration and teaching of software packages. Teaching Finite Element Analysis based softwares like ANSYS and MagNet will be easier using screen cast softwares. With the help of blog teachers communicate quickly and easily self-publish text, artwork, links to other blogs or web sites, and a whole array of other content to encourage the students to learn new concepts and ideas. This generates a lot of enthusiasm with the students as they too can interact with the staff members. In addition RSS provides an easy way to publish frequently updated material such as web logs, news headlines, or podcasts. Twitter is helpful in finding out what's happening, right now, with the people and organizations. With these web tools teaching learning process can be enhanced and sufficient interest can be generated among student community.

Keywords: Active Learning, Blogs, RSS,Screen Casting, Web Tools

Paper ID: E-18

SKILL DEVELOPMENT IN INDIA

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ABSTRACT:

This paper highlights the critical need for scaling up concerted efforts to enhance skill development in India, in the context of the country's transition to a knowledge based economy, through the creation of a professional skilled workforce. Governmental efforts, especially in the recent past, in the arena of skill development through various schemes and programmes, management structures and processes, and the challenges encountered within these initiatives are discussed. Further, identifying pathways for countering these challenges and effective implementation of the programmes are examined with a detailed interview with S.Ramadorai, chairman, national skill development agency, government of India & national skill Development Corporation; former CEO, md and vice chairman, Tata consultancy services.

Keywords: Skill Development, National Skill Development Policy, Vocational Educational and Training

Paper ID: E-28

STRENGTHENING STUDENTS' POTENTIAL TO INTERNATIONAL STANDARDS

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ABSTRACT:

Globalization is the uprooting trend today. Teaching and learning is not the exceptional. Teachers and students demand a great deal of change in learning and teaching. In the competitive global 'knowledge economy', the knowledge and skills of a nation's people will significantly determine the country's well-being. This makes the quality of learning – the acquisition by students of knowledge, skills, and also values - in universities of the utmost importance for the community as well as for each individual student. There is near-unanimity on the need for teaching to be focussed on learning outcomes, rather than on the teaching process itself, and especially on engaging each individual student in their own active learning, including – especially through discussion and debate - in refining the skills of independent thinking and of clear communication which any university education should encourage. The teacher as performer, though valued by many in the past, appears now to be largely out of fashion. Technology Brings Challenges. Inculcating technology into the classroom can also bring a set of challenges.

For example, Students at the Owen School's Strategy in the New Economy seminar enter a classroom that looks like any other, except that a projection system and video screen have been installed. Their professor announces that today they will be joined by a guest lecturer, a senior VP from a Fortune 500 corporation. What makes this guest lecture unique is that the students are sitting in a Nashville classroom but the guest lecturer is speaking from his home office in Estonia, via video technology. This is one of the creative ways to enhance the students' learning that is being used by faculty members through technology.

This article focuses on teaching and learning methodology that has to be inculcated to bear a sweet fruit and make students compete globally. The ideologies put forth here deals with equipping them towards employability, fulfilling the expectations of industry and providing them with educational excellence.

Paper ID: E-31

METHODS TO IMPROVE THE QUALITY OF TEACHING IN EDUCATION

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ABSTRACT:

Teaching in education is a vital role played between teachers and students. There are variety of measures to improve the Quality of Teaching in Education. E-Learning is a new technology in learning has become a buzz in the education industry and today it caters to the needs of modern-day learners. Infusing technologies in classroom learning have added to stimulus and enhanced learner's interaction within the classroom.Special Education Classrooms have incorporated technology to serve kids with a wide range of needs and personalized education plans. Technology provides children with special needs with valuable opportunities to learn and demonstrate skills and knowledge, and can improve the quality of special education classrooms.Assistive technologies became commonplace in special education classrooms, allowing teachers and aides to reach kids with mild and severe cognitive, physical, and sensory disabilities. Technology can be used to improve teaching and learning and help our students be successful. Technology can be a "force multiplier" for the teacher. Instead of the teacher being the only source of help in a classroom, students can access web sites, online tutorials, and more to assist them. ICTs have definitely revolutionized business processes and organizations, created a worldwide network of e-commerce, and turned the domain of entertainment into a fascinating experience. According to Jomtien Declaration, "Whether or not expanded educational opportunities will translate into meaningful development for an individual or for society depends ultimately on whether people actually learn as a result of those opportunities, i.e., whether they incorporate useful knowledge, reasoning ability, skills, and values." Actual learning achievement is the real measure. Cooperative learning (CL) is instruction that involves students working in teams to accomplish an assigned task and produce a final product (e.g., a problem solution, critical analysis, laboratory report, or process or product design).

Keywords: E-Learning, Special education classrooms, Assistive technologies, Technology, Force Multiplier, Cooperative Learning

Paper ID: E-05

INDUSTRY INSTITUTE COLLABORATION FOR ENLIGHTENING ENGINEERING ADMISSION BY OPEN-HANDED EMPLOYABILITY

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ABSTRACT:

Our education system is more information oriented but leaves little scope for creativity, invention and self-learning. Also students are not equipped with the latest technological trends. These leads to competency gap between industry and institute. Because of this gap, only small fractions of the huge number of engineering under graduates are considered directly employable, remaining are unemployable. Not all the institutions are ready to take initiatives to bridge the competency gap. Therefore admission in private engineering colleges goes down. In this paper, we address few more remedial measures to bridge the gap between engineering education and industry expectations to meet world standards for the betterment of admission in upcoming years.

Keywords: Competency gap, Education system and Unemployable.

Paper ID: E-03

WORLD CLASS EDUCATION BY WONDERFUL TEACHING PEDAGOGIES

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ABSTRACT:

Teaching is an art. Teaching job is the most satisfactory job along with doctor. A teacher is needed for all categories. In school teacher is needed, in college professor is needed whereas after joining the job trainee is needed.Wherever it may be the objective of the teacher is to make the students to understand the concepts. In vedaperiod the student and teacher relationship was called as guru and sishya. The sishyawill went to Guru's home, they will do all work for the guru and will learn from the guru. But nowadays education is going like a business. Not all the education sectors are aiming towards profit but some institutions are moving towards it. Compared to 2001 census report in 2011 census report the literacy rate has been increased to 9.2%. But we need to analyze how much the literacy rate have impact on the society, what people learnt, what they practically implemented. This is the great issue in today's education. Now a day's students get exposure to the internet. So knowledge level can be attained easily. This is the reason that students are not interested in traditional classroom teaching. So, new teaching pedagogies have to be incorporated in teaching to make the students enthusiastic in classroom. The students should inculcate self-learning. Teachers should not only motivate students but also make the students towards intrinsic motivation. Innovation, creativity will start from the classrooms. Classroom is not the place to get knowledge but it is the place to start the students' carrier, which can be achieved by new teaching pedagogies.Teaching- learning should not be in passive manner but it need to be in active manner i.e. faculty/ teacher should not only teach but also need to ensure that students are actively listening, interactivity of the students, enthusiast in asking doubts,. If the students listen and actively engaged in the class then they will intrinsically motivated towards innovation and creativity.Teachers need to always give challenges to students such that their thinking ability will be tuned on. Students should be asked to do projects of their own interest. An expo needs to be arranged to exhibit those projects and also the students need to attend other expo's that have been arranged by other institutions. This will increase students' interest in doing projects and by attending other expo the students will get exposure to outside world. Teacher should act as facilitator; they need to facilitate the students towards self- learning.

Paper ID: E-08

INTERNATIONALISATION OF INDIAN TECHNICAL EDUCATION EMPOWERING INDIA WITH RESPECT TO INTERNATIONAL CONTEXTS AND PERSPECTIVES

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ABSTRACT:

Technical education system is one of the outstanding Indian organization which plays a dominant role in human resource development of country to reinforce and promote the quality of every human life worldwide. Technical education system acts as fortitude in developing the economic growth of India affording high quality engineers, technologists, entrepreneurs, etc. with mankind values to serve the nation. The extensive agenda discussed in this paper is to improve international contextual perception. International context and perspective involves curriculum development, technology enhanced learning, teaching and assessment components of student learning, student support system, work, career development with culture for holistic education. One of the major performances of curriculum development is syllabus framing for every course with an enhancement. Syllabus framing can be segregated into four different categories such as creativity and problem solving, programming with logical thinking, project based learning on technologies, intellectual abilities with competencies and skills. Technology enhanced learning comprises different firm of teaching methodologies such as interactive classrooms, constructive teaching, flipped classroom, creative design thinking, E-learning and Jig saws. Assessment components of student learning can be assessed on research paper submission, project thesis, online certification courses, industry foundation program case study presentation, World level ACM ICPC programming contest assignments and tool based learning. Student support systems embroils members of research societies, clubs for financially challenged and physically challenged students, student committee making friends and connections, overseas higher education training cell, tutor ward system, IASTE student exchange system and spiritual development cell. Work, career and culture development implicates alumni cell, career and professional development cell, outreach social activities, outside world connection via facebook, whatsapp, linkedIn, etc, technical academy to train students for employability, collaboration with other campus students, centre of excellence and collaboration with industry minds.

Paper ID: I-04

IMPACT OF EDUCATIONAL TECHNOLOGIES IN TEACHING

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ABSTRACT:

Educational technology is a complex, integrated process of involving people, procedures, ideas, and devices to manage the solutions of the problems in effective learning. Technology in education refers only to the use of devices that may be used in the classroom. Application of modern educational technologies is one of the most important ways to obtain the quality education. Technology offers the new opportunities and benefits for educators in their teaching practice and their research. Modern educational methodologies are applicable for diagnosing the education results, student motivation. It helps to increase, influencing the creative thinking ability of the student. The objective of the education technology is to construct the teaching process at the level of contents, interaction forms between the students and teaching process contents and evaluation and control of the results of teaching activity. The aim of the paper is to solve the problems in ancient teaching through the modern tools of educational technologies.

Keywords*:* Teaching, Learning, Modern Educational Methodologies, Teaching process

Paper ID: I-06

EFFECTIVE TEACHING PRACTICES IN ENGINEERING - A REVIEW

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ABSTRACT:

The purpose of this paper is to evaluate thetraditional methods of teaching the engineering students and tosuggest other useful teaching methods that can be attempted inimparting knowledge to the students. Basically teaching must includetwo major components sending and receiving information. Ultimately, ateacher tries his best to impart knowledge as the way he understood it.So, any communication methods that serve this purpose withoutdestroying the objective could be considered as innovative methods ofteaching. The use of innovative methods in educational institutions hasthe potential not only to improve education, but also to empower people,strengthen governance and galvanize the effort to achieve the humandevelopment goal for the country.

Paper ID: I-05

EDUCATION GOVERNANCE

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ABSTRACT:

The impact of education investments in developing and transition countries are typically measured by inputs and outputs. Missing from the education agenda are measures of performance that reflect whether education systems are meeting their objectives; public resources are being used appropriately; and the priorities of governments are being implemented. This paper suggests that good governance can serve as an entry point to raise institutional performance in the delivery of education services. Crucial to high performance are standards, information, incentives and accountability. This paper provides a definition of good governance in education and a framework for thinking about governance issues as a way of improving performance in the education sector. Performance indicators that offer the potential for tracking relative education performance are proposed, and provide the context for the discussion of good governance in education in the areas of budget and resource management, human resources, household payments, and corruption perceptions. What we do and do not know about effective solutions to advance good governance and performance in education is presented for each area, drawing on existing research and documented experiences.The paper provides an overview of governance and performance issues in education, and attempts to identify what we do, and do not know about effective solutions to advance good governance and high performance in education, drawing heavily on the existing work of many researchers, specialists, and practitioners. The paper defines governance, presents a governance framework, and proposes a set of indicators to track education sector performance across countries and over time. The aim is to improve sectoral performance, complementing other education system efforts not addressed here, such as curriculum development, teacher training, and textbook design.

Paper ID: E-32

SKILL DEVELOPMENT IN INDIA AS A DEMOGRAHIC GIFT

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ABSTRACT:

The paper deals with today's scenario on the expectations on the demographic dividend of India. The abundant workforce supply , being the major benefit out of it and hence is considered as the main parameter which would project India as a developed nation in the days to come. To have a better handling of the situation , the present skill profile of India is also presented in this paper. The importance of the Industry Institution Academia interaction to participate in the skill training for the upliftment of the workforce are dealt and the strategies to implement the same effectively to bridge the gap between the two are suggested.

Keywords: Population Pyramid, Demographic Dividend, Industry Institute Academia and Employability skills.

Paper ID: E-36

INDUSTRY- INSTITUTE INTERACTION IN TECHNICAL INSTITUTION - ASIAN COUNTRIES

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ABSTRACT:

Collaboration between industry and academia can happen at various levels. It is for mutual benefit and can make meaningful contribution to the society. An autonomous institution to utilize this interaction in order to cover some of these areas and thereby enhance the teaching - learning experience of students and teachers and contribute to overall growth and development of the institution.

Paper ID: I-02

KNOWLEDGE MANAGEMENT FOR GLOBALISATION OF TECHNICAL EDUCATION

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ABSTRACT:

Knowledge Management (KM) plays a key role in the universities due to changes in knowledge culture. In order to sustain in the competitive world, all educational institutes should implement effective tools for KM. Academic and administrative processes and functions result in useful knowledge leading to enhanced performance. KM in technical education develops new solutions, reduces costs and risks and promotes organisational growth, supportive and knowledge-sharing culture, adaptability and talent management. KM is drawn from a wide range of disciplines and technologies. A country, rich in educated and skilled workforce has great potentials for knowledge economy. A country that understands its dynamics should be able to manage knowledge economy in its favour through appropriate strategies. Globalisation of technical education, lifelong learning and paradigm shift from teaching to learning and new technologies are the key factors in developing KM. Globalisation of technical education needs to share the organizational knowledge. Globalization and technological advancements deliver and increase access to the world and reforms the teaching methodology. There are various possibilities to globalize the technical education. With the combination of KM and ICT tools, the education institution will be able to provide better educational facilities and services. KM gives most effective way for innovation and development. India's innovation potential can be unleashed to achieve benefits of technology and innovation. Changing demographic composition worldwide has altered the paradigm of development in India with high number of highly educated youth. With abundance of human resources, India is well equipped for growing as a global leader in the knowledge society. The Government of India outlines the various policy and support measures in knowledge-based development. MHRD, UGC, AICTE, NKC, NPTEL, NIF of Government of India promote globalisation, innovation and KM in technical education.

Paper ID: I-13

APPLYING SIX SIGMA IN TECHNICAL EDUCATION QUALITY IMPROVEMENT – A REVIEW

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ABSTRACT :

Quality in technical education became an important issue due to ever increasing demand by stakeholders and competitive environment. Although six sigma has been successfully used in product and service improvement in the business environment, the concept has not been adapted in technical education. To improve understanding of how six sigma can be used for technical education process improvement toward achievement of quality, a number of models are presented. Six sigma principles such as process improvement, reducing waste and continuous improvement aligns closely with the mission of technical education institutions and accreditation agencies. Using six sigma tools such as statistical process control lean manufacturing, failure mode and effects analysis can help in the development of sustainable higher quality educational process. A process map with SIPOC (supplier, input, process, output and control), cause and effect analysis, FMEA (failure mode and effects analysis) for higher education was developed and presented. These tools can be used by technical education institutions to better understand the higher education process and how it can be improved to meet the desired quality goals.

Paper ID:I-07

HOW TO IMPROVE INNOVATIVENESS OF ENTREPRENEURSHIP

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ABSTRACT:

From the ancient times innovation and entrepreneurship have fostered growth and have improved quality of life. Researchers try to find the best model to explain innovative clustering and the way how to improve innovativeness of the firm and the value chain. Global competition has put investment in R&D and technology in focus. Developing countries are attempting to increase their investment in knowledge, which is reflected in an increasing number of entrepreneurs and openness of the economy. The time period from invention to market implementation has shrunk considerably and a systematic approach to the theory of innovations has been introduced. If we want to transform boundaries, we should build networks and foster innovation culture.

Paper ID: I-08

GAMIFICATION IN EDUCATION

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ABSTRACT:

In today's digital generation, gamification has become a popular tactic to encourage specific behaviours, and increase motivation and engagement. Many educators have attempted to effectively utilize game dynamics to increase student motivation and achievement in the classroom. For students, gamification serves the purpose of minimizing negative emotions that they usually encounter in traditional forms of education.Gamification can be integrated effectively into education to motivate students and enhance learning. Teachers should feel empowered to start integrating gamification elements and mechanisms into their curriculum. While the underlying objective of applying gamification to any education program is to prompt some type of behavioural change in the student, many instructors specifically look to tackle the issue of student motivation and engagement during their learning process.

It lets them approach knowledge and skills, using the learn-by-failure technique that is popular in game-like environments, without the embarrassment factor that usually forms a part of classroom education. There are some obvious overlap between games and the classroom that makes gamification of curriculum a logical approach.The game dynamics of the Freedom to Fail, Rapid Feedback, Progression and Storytelling are elements that an educator interested in harnessing the effectiveness of games would be smart to focus on as they are shown to be grounded in proven pedagogical practices.

A majority of the current studies on the effectiveness of gamification do indicate that gamification in education produces positive effects and benefits.Effectively integrating gamification into education demands a thoughtful analysis of the students involved, the course material and learning objectives, the holistic structure of the learning experience, then consideration of what specific elements and mechanisms will most effectively guide the student through a meaningful learning experience.

Paper ID: E-33

STRATEGIES, CHALLENGES AND OPPORTUNITIES –INDUSTRY INSTITUTE COLLABORATION

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ABSTRACT:

This paper propounds about Industry Institute Collaboration for fulfilling curriculum on project-based learning of students to empower their future towards success. This idea offers an exposure to students with latest technologies; identify the practices to bridge the gap between institute and industry and implement industry interaction ensuring Skill Development with Excellence, Employability, Expansion and Equity, Nurturing Rural Development and its Infrastructure.

Keywords: Industry Institute Collaboration, Skill Development, Excellence, Employability, Expansion, Equity, Nurturing Rural Development and its Infrastructure.

Paper ID: E-43

THE USE OF KNOWLEDGE AND COGNITIVE DIMENSIONS IN REVISED BLOOM'S TAXONOMY: A CASE STUDY

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ABSTRACT:

Bloom's Taxonomy has been changed during the years. The idea of this writing is about the revision that has happened in both facts and terms. It also contains case studies of using cognitive Bloom's taxonomy in teaching geometric solids to the engineering students, affective objectives in a creative workshop for adults and programming courses. There is also pointed to the important role of classification objectives and use of storyboarding evocation to evocate the students about case study topic i.e..iOS Storyboard.

Keywords: Storyboarding, affective domain, cognitive domain, evocation and iOS Storyboard

Paper ID: I-09

ENGINEERING EDUCATION: OPPORTUNITIES AND THREATS

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ABSTRACT:

In recent years, Indian economy has grown rapidly interestingly, by skipping the manufacturing stage and going straight to the services sector, the country took a rather unconventional, path to growth. This resulted is a surge in demand for graduated in certain areas taking the higher education sector by surprise. Unable to meet this demand, technical and higher education sector received a lot of flak. Ironically these shortages were accompanied with rising graduate unemployment and underemployment. Changing nature of work and growing integration of Labour markets at the global level makes the coordination between higher education and labour market complex. There is found that the students of Engineering Colleges of each state of this country should be given apprenticeship, and on job training opportunities. This will lead to availability of trained human resources to the industries of the region. Further, it will also widen the placement opportunities of the students in the industries, and service sector. Since technology has become the key factor in deciding the course of development of any nation, there is a need to encourage technology up-gradation of the industries, therefore enhancing the research potential of the industries. All the inventions and innovations, stem out from the developed nations, which is a result of tremendous effort that they put in R & D. Thus R & D facilities have to be promoted in the industries.

Paper ID: E-40

INDIAN EDUCATION SYSTEM : LEARNING-TEACHING METHODOLOGIES

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ABSTRACT:

An education is simply imparting knowledge to learners and makes them acquaint to understand the known things in an enhanced way and learning unknown things with their structures and forms and usages. The title "Indian education-sustainability and global competitiveness" indicates the pros and cons of the system followed in the society. Education is sharing of knowledge from a versatile domain to amateur students. It is not just a recapitulation and reproduction of what students learn but applying it in day today life and research on it with innovative concepts. The land which is known for traditional learning in gurukulas with practising according to the area they chose has turned its side as a method of cramming knowing or unknowing the meaning of the subjects they learn. Students are practised with the important questions in exam point of view and scoring marks. The real essence of the subject is left untasted.This article explains the teaching methodology and learning methodology that has to be inculcated in system of education to bear a sweet fruit and make the education system of india global competitive and attract students from abroad to learn here with free flow of thoughts and ideas. The ideologies putforth here deals with equipping them towards employability,fulfilling the expectations of industry and providing them with educational excellence.Etymologically, the word "education" is derived from the Latin **ēducātiō** ("A breeding, a bringing up, a rearing") from **ēdūcō** ("I educate, I train") which is related to the **homonym ēdūcō** ("I lead forth, I take out; I raise up, I erect") from **ē-** ("from, out of") and **dūcō** ("I lead, I conduct").

Paper ID: I-15

FOSTERING QUALITY TEACHING - POLICIES AND PRACTICES

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ABSTRACT :

Quality teaching in higher education matters for student learning outcomes. But fostering quality teaching presents higher education institutions with a range of challenges at a time when the higher education sector is coming under pressure from many different directions. Institutions need to ensure that the education they offer meets the expectations of students and the requirements of employers, both today and for the future. The wide vision and strategy of the institution needs to be well-aligned with bottom up practices and innovations in teaching and learning. Developing institutions as effective learning communities where excellent pedagogical practices are developed and shared also requires leadership, collaboration and ways to address tensions between innovators and those reluctant to change.

Paper ID: E-44

BUILDING RESEARCH-A CASE STUDY ON ELECTRONIC PORATABLEDEVICES

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ABSTRACT:

The demand for building research method is often filed in most undergraduate and polytechnics as neither quantitative nor qualitative. The qualitative research means include prior art , phenomenology, discourse investigation and case study, for example. It includes exploration and realization of domain prototypes, comparison amongdefinite methods, evaluation of qualitative designs in the respective disciplinary domains , and to apply methods and techniques. The design approach to scholars and students step –wise will initiate students acquire on (a) means to determine research findings (b)determine , collect or generate data (c) Interpret , Evaluate and Analyze the data and (d) disseminate findings in report writing .The Case studies are multifacetedand involves large of data for analysis. Researchers from many disciplines use the case study method to build upon theory .One such case study here discussed is on building research on electronic portable devices is gaining more attention in recent decades. Portable devices are demanding for many electronics , electro mechanical and many more engineering domains . This study helps to produce a new theoryapplicability to real-life, modern, situations towards a demanding need for low power multipliers

Paper ID: E-35

PROSPECTS AND CHALLENGES IN LEARNING AND TEACHING ENGLISH LANGUAGE THROUGH THE USE OF ICT

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ABSTRACT:

The use of ICT in English language learning and teaching has become indispensable in today's global environment. The vital role played by ICTs in enhancing the knowledge in language learning has gained acknowledgements from all spheres. The use of ICTs helps the learners to acquire good vocabulary and enhance all the four skills in language acquisition. This will enable them to develop a broad outlook of the culture of many nations across the globe, together with widened employment opportunities in globally renowned organizations. The role of the teacher is more accountable, that the teacher has to update the knowledge on latest technological advancements and the appropriate usage of modern gadgets in language learning. This paper aims to highlight the use of ICTs in language teaching and learning. It also strives to emphasize the prospects derived using ICT and challenges involved in the effective utilization for optimum benefits.

Keywords: ICTs, English language learning and teaching, vocabulary, four skills, prospects, challenges.

Paper ID: I-01

WORK-LIFE BALANCE FOR WOMEN ENTREPRENEURS

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ABSTRACT:

This study for the promotion of work life balance of entrepreneurship among women in various industries. One of the key activities undertaken under this study has been a commission area studies to assess the status-barriers and constraints, as well as opportunities and support mechanism of women entrepreneurship. This report brings together a large amount of information on various entrepreneurship and women development programs. The situation is updated by providing an assessment of the current position of women entrepreneur in women Coimbatore city, as well as of the existing support programs and mechanisms. The study looks at the socio-cultural, educational and legal barriers to women entrepreneurship in Coimbatore city. In addition, there is a valuable overview of the personality traits essential for successful entrepreneurship, with consideration given to distinctions between female and male entrepreneur. The report also analyses supply-side economic opportunities, such as credit and marketing support, for women establish their own enterprises.

Keywords: Women development programs, Work life balance, Economic opportunities, Marketing.

Paper ID: I-17

CREATIVITY IN INNOVATIVE RESEARCH EDUCATION, ENTREPRENEURSHIP AND ITS ROLE IN SOCIAL ECONOMICAL GROWTH

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ABSTRACT:

Innovation plays the dynamic role that governs interaction between science, industry, and society and socio economical progression. This shed light on our understanding on interrelation between knowledge and growth in one hand, entrepreneurship and growth on the other hand. The main objective of this paper is to illustrate that innovation is the combination of a creative process on entrepreneurial process that createsa new social economic value. An entrepreneurship pipeline can transform university innovation into business innovation by the creation of a symbiotic relationship between education, research, technology transfer, and business .The results and studies directly impact on the economic and community development.Various innovative thinking methods, knowledge creation and entrepreneurship process that induce mechanisms to convert knowledge into societal and useful needs are discussed.

Keywords: Innovation, Entrepreneur –Creativity-Social Growth

Paper ID: E-37

RESEARCH, INNOVATION, AND ENTREPRENEURSHIP FROM ENGINEERING EDUCATION

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ABSTRACT:

Engineering Education is one of the prime factors for the development of any country. The growth of any country depends on Research and Innovations. The entire world is marching towards innovation to rule the world. Engineering Education is the backbone of creativity and innovation which could led towards research and research can motivate towards entrepreneurship. Research & Innovation wouldn't come all of a sudden and to attain this coal fundamental knowledge is needed. The Education Faculty plays a vital role in providing economic prosperity and social welfare for any country. It is the duty of the Faculty to stimulate the student community towards research and innovation and transforming the education system to meet the needs. This paper analyses the potential ways of research and innovation which can lead a person towards entrepreneur.

Keywords: Engineering education, creativity and innovation, research, entrepreneurship.

Paper ID: E-39

GATEWAY TO SUCCESSFUL EDUCATION PROGRAMME THROUGH IDENTIFICATION AND ASSESSMENT OF LEARNER'S POTENTIAL AND NEED

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ABSTRACT:

Student joining the institution possesses varied skills and diverse approaches to learning due to their limited exposure. Entry level analysis in students and continuous system of monitoring and evaluation paves way to understand the progression in students. Bridging the skill gaps by means of creating opportunities that instills confidence building, promoting orientation towards learning, imparting values in the minds of the learners is essential.Augmenting the regular curricular practices, it is essential to provide opportunities for students of mixed category to participate and gain competencies that will help learner'sto become sustainable at work place/progress in higher studies meeting the programme educational objectives.

Keywords-Confidence building, Evaluation, Monitoring

Paper ID: I-18

ENTREPRENEURIAL EDUCATION METHODS

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ABSTRACT:

The purpose of this paper is to offer an alternative method of delivering entrepreneurship education through student-operated companies as part of an integrated business core (IBC).One mainstream teaching method in entrepreneurship has been the development of a business plan for a new venture. Over the last few decades, interest in entrepreneurship as a career path has been growing. Many entrepreneurship educators are rethinking their teaching methods, searching for and experimenting with innovative ways to increase student learning and entrepreneurial success. Entrepreneurship simulation games and seminars create a viable method for teaching complicated business interrelationships to both students and entrepreneurs. Entrepreneurship concepts require using, applying, and acting. Innovative methods for teaching entrepreneurship include a portfolio of techniques from starting a business to incorporating games and simulations, design-based thinking, and reflective practice.

Paper ID: I-14

ENHANCING QUALITY EDUCATION IN ENGINEERING

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ABSTRACT :

Engineering is having much importance in the development of each and every field. One such important development is the wheels and pulleys which are driving the world with different technologies. Engineering is playing a vital role in new inventions and developments that satisfies the need of the world. The thrust that drives the inventions and developments based on the requirement is engineering education. Engineering education is important to apply the science and technologies to innovate new ideas in engineering. The perspective of the enhancement of the quality of education in engineering is much important. The work has been done on creating and using virtual and remote laboratories for Science and Engineering education, and on providing a number of software tools that facilitate the creation. Virtual laboratories, or simulations, can be used to promote a more active role of students when studying certain phenomena. Remote laboratories add the extra value of using real hardware, typically at a distant location, which shows students the additional issues that appear when using real equipment. These pedagogical benefits are particularly effective if the laboratories are designed to be used using an Interactive Engagement approach.

Paper ID: E-34

INTERNATIONALISATION OF INDIAN TECHNICAL EDUCATION EMPOWERING INDIA WITH RESPECT TO INTERNATIONAL COLLABORATION

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ABSTRACT :

One of the prominent Indian system which has an active participation in developing, revamping and augmenting the education is Technical Education system being governed as All India Council for Technical Education (AICTE). This governing body has an extensive purpose in marinating young minds as scientists, researchers, engineers, technologists, entrepreneurs, etc. In this paper, we have discussed about international collaboration as one of the technical education component to empower the Indian education system for the progress of students as bright gems worldwide. International collaboration comprises research, innovation, skill development, industry collaboration, entrepreneurship and gaining new knowledge. Research associates R&D cell, Centre of research training cell, Internships in MIT, IIT and summer research fellowship programme. Innovation involves innovation centre, copyright and patent guidance cell, project proposals grants cell. Industry collaboration being engaged in working with abroad universities, faculty exchange, conduction of joint seminars, and workshops, Infosys campus connect programme, Wipro PRP training programme, IBM organizing ICAT, CSI contest programme, CISCO and Juniper Networking centre. Entrepreneurship involves extramural lectures and workshops on business management, self employability organization, coaching courses on entrepreneurial, entrepreneur professional tools academy, collaboration with corporate entrepreneurs. To gain new knowledge, we can propose technology academy such as IOT cell, Mobile Application cell and Web services cell.

Paper ID: I-11

RETENTION OF FACULTY IN ENGINEERING INSTITUTION

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ABSTRACT:

This paper aims at how teaching faculty members can be retained in engineering institutions. Faculty retention is the foremost problem, which all the institutions are facing in the global competitive environment. In this paper, the author wants to discuss about the environmental factors both internal and external which are responsible for influencing the faculty decision to either leave or to stay in the organization. Based on the specific faculty needs, the institution must implement the relevant retention strategy, since one strategy does not fit for all as conflict arises between the faculty and the management. So there exists the need for the HR manager to identify the faculty needs and then frame the retention strategy. The most relevant retention strategies are in discussed in this paper.

Paper ID: I-20

EMPOWERMENT OF WOMEN ENTREPRENEURSHIP IN INDIA

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ABSTRACT:

The impact of women-owned businesses on the global economy.Entrepreneurship by the women may be definite and are of not recent origin. The perspective and approach for occupational in women is inimitable. They are using inventiveexpertise to reach businesses and develop data in unprecedented ways. The key elements that empowers women to make themselves unique towards functional thinking includesassociates, elucidations and variations.In spite of the economic accomplishments of the earlier period, many indigenous and women are contingent on numerous small-scale traditional skills through self-help groups for their entrepreneurship. Many women technologists expand their network offering technology related solutions. The government has initiated many steps to support the economic empowerment of women. Their access to education, training, and technology will provide more resources towards collaboration, novel and innovative design thinking. This paper analyzes a comprehensive study of women empowerment and its upliftment with evidences towards connecting them with other corporates and helping accelerate their development.

Paper ID: I-10

APPLICATION OF LEAN SIX SIGMA QUALITY MANAGEMENT SYSTEMS FOR THE IMPROVEMENT OF HIGHER EDUCATION INSTITUTIONS- A REVIEW

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ABSTRACT:

Now a day's knowledge-based society, research and innovations play a critical role in social and economic transformation. However, the higher education institutions (HEIs), which are the main hubs for knowledge generation, usually produce basic research and innovations. The purpose of this paper is to present a review and an analysis of the literature for integrating Lean Six Sigma(LSS) with education system. While Six Sigma is increasingly implemented in industry, little academic research has been done on Six Sigma and its influence on quality management theory and application. There is a criticism that Six Sigma, simply puts traditional quality management practices in a new package. To investigate this issue and the role of Six Sigma in quality management, this study reviewed both the traditional quality management and Six Sigma literatures. It will also explore the fundamental challenges, barriers and critical success factors for the introduction and development of LSS in the HE context.

Key words: Lean Six Sigma, Process Excellence, Higher Education

Paper ID: I-03

INFORMATION COMMUNICATION TECHNOLOGY (ICT) IN EDUCATION SYSTEM

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ABSTRACT:

Information Communication Technologies are the power that has changed many aspects of the lives. The impact of the ICT on each sector of the life across the past two-three decades has been enormous. The way these fields act today is different as compare to their pasts. Across the past twenty years the use of ICT has basically changed all forms of endeavour within business, governance and off-course education! ICT has begun to have a presence but unfortunately we are lacking to achieve desired impact. The education is a socially oriented activity. It plays vital role in building the society. The quality education traditionally is associated with strong teachers having high degrees. Using ICTs in education it moved to more student – centered learning. As world is moving rapidly towards digital information, the role of ICTs in education becoming more and more important and this importance will continue to grow and develop in 21st century. This paper highlights various impacts of ICT on contemporary higher education and also discusses potential future developments. The paper argues the role of ICT in transforming teacher-centered learning to competency based learning. It also explores some challenges in higher education like cognitive tutors, need for developing a model, collaborative authoring etc.Computer-based systems have great potential for delivering teaching and learning material.The rapid development of Information and Communication Technology (ICT), particularly the Internet, is one of the most fascinating phenomena characterizing the Information Age. ICT powers our access to information, enables new forms of communication, and serves many on-line services in the spheres of commerce, culture, entertainment and education. Over the last decade in the United Kingdom there has been growth in support for the use of technology within teaching and learning in Higher Education (HE). In particular, since 1993 the Teaching and Learning Technology Programme (TLTP) has promoted the creation of technology-based materials for use across the HE sector.

Keywords: Implementation of ICT, Online learning, Higher Education, Teaching and Learning Technology Program

Paper ID: I-16

INFORMATION AND COMMUNICATIONS TECHNOLOGY FOR KNOWLEDGE CENTERED EDUCATION

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ABSTRACT:

Information and Communications Technology (ICT) are being used as a medium through which teachers can teach and learners can learn. ICT is also used as an assisting tool for making assignments, collecting data and documentation, communicating and conducting research. The ability to link written with audio and visual material can enrich the learner's senses. Apart from books, journals and reports learners can make available for themselves electronic and web resources like Digital library, NPTEL, EDUSAT, EKLAVYA, LMS, and others. These technologies provide a qualitative expansion in delivering knowledge and make it more participatory. These resources would empower the learners in learning process, education, further occupation and social life.

Paper ID: I-21

USING 'SELF-ASSESSMENTS' AS A TOOL FOR EFFECTIVE TRAINING IN PLACEMENTS; TO ENHANCE THE COMMUNICATION SKILLS AMONG ENGINEERING STUDENTS

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ABSTRACT:

Very often we find human resource personnel and placement officers struggling to identify the right students to be placed in particular companies. Identifying students in the initial round and then training them at the next level in various companies or workplace specific skills and abilities involves both time and man power. On the other hand, if at the outset itself we are able to narrow down to a small group of students who have the required abilities the whole process becomes much easier and effective. 'Self Assessments' can help students themselves to realize their abilities and to work with the placement officers in matching their abilities to a particular workplace's requirement. It would also help students to identify their weaknesses and strengths, thus, a more focused coaching of a limited number of eligible and interested students would be very satisfying and rewarding. This paper highlights the importance and need of using self assessments as a tool in language skills in identifying those engineering graduates who are on the verge of completing their degrees and who are seeking placements. The results of which are discussed and furthermore suggestions and recommendations have been made.

Keywords: Self assessments, language skills, placement training

Paper ID: I-12

FACTORS TOWARDS IMPROVING THE STANDARDS OF HIGHER EDUCATION

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ABSTRACT:

As per the statistics of ASSOCOM only 15% of people who are having higher degree are having eligibility to get the job. This gives some strong impression that most of them are having degree without employment. Indian higher education system is churning graduates like anything without proper perspective and also having aim to earn money. They converted educational institutions as profit making centers, which created serious dent in the knowledge enhancement among the Indian youngsters. This paper deals about the strategy on revamping the higher education system in a professional way.

Key words: Higher education , profit making, knowledge enhancement

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