



KLE DR. MSSCET Information Bulletin

KLE Dr. M. S. Sheshgiri College of Engineering & Technology

Udyambag, Belagavi, Karnataka

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July - Sept : 2019

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Learning Factory and Activity Based Learning (LFABL): Promoting Skills and Innovation

An Article published in the Book - BUILDING AGILE WORKFORCE: Transforming Talent , Technologies and Ideas
By **Dr. Basavaraj Katageri** and **Dr. D.G.Kulkarni**

Innovation is now one of the most dictating factors for an organization's success and growth, be it in a service industry, a manufacturing sector or educational segment. As such, cultivating a climate of innovation in an organization should be viewed as a critical organizational initiative. However, several organizations are incapable to visualize the need of innovation and are unable to decipher the factors that hinder the progress of innovation. There are numerous challenges and barriers to innovation. Depending on any one method of innovation can be catastrophic since the investment in R&D is huge.

Think tanks have been writing about disruptive innovation causing new markets to emerge for a product or service. However, the gestation period from ideation to commercialization is the key component that will decide the fate and value of an innovation. The myth that innovation is the baby of the Research and Development has to be shunned. This is the biggest barrier. It is not that one functional group in an organization is more suited to innovate than the others. Every department has a unique perspective on the problems of customers which can be critical for driving successful innovation. This being the case, fostering the climate of ideation and innovation in an educational institute becomes even more important. Various technical departments generally keep working in their localized setting of department ambience and intellect. The learners need to interact and discuss ideas with other domain experts for a better solution. An environment to work on the ideas without any prejudice helps the learners to try out their ideas to bring them to reality. The Learning Factory is a concept which began by

understanding "What deters learners from innovating"? Post the survey in the institute, it was identified that the equipments required for the manufacturing of the project ideas were not easily available and required an administrative procedure to get the permission. This cumbersome process was hindering the implementation of projects and over a period of time the enthusiasm of the learner died down. The learners were also skeptical about the laboratories being open late hours and availability of an experienced machinist/ technician to help them. These inputs were analyzed and a solution to these difficulties was the concept of "Learning Factory". The establishment of the Learning Factory was done in four stages.

1. Infrastructure to house the equipments
2. Procure state of the art capstone equipment
3. Extended working hours for learners to work late night
4. Availability of raw material for the learners.

The most important facet of the Learning Factory was to make the students shun fear of failure and go ahead with their ideas under suitable guidance and supervision. The cost of the raw material is borne by the institute and partakes in the development process of the product. Though the Learning Factory is in its early stage, an initiative to have a joint patent is contemplated. This will allow mutual benefit for all the people participating in the innovation. Learning Factory has shown to be effective for developing theoretical and practical knowledge in a real production environment.



Ph.D AWARDEE

Dr. Sujata N Patil,

Department of Electronics and Communication
University - KLE, Belagavi

Thesis- Analysis and Classification of Human In-Vitro Fertilized Embryos Using Digital Image Processing Techniques.

Sports Achievements- International/National/University level:



Mr. Prathviraj Kangralkar (VII - CS) secured Gold and Bagged Mr. VTU Title for the second consecutive year VTU single Zone Best Physique Competition held at Sri Sairam college of Engg - Bengaluru on 14th and 15th October 2019. Also secured Best Physique at VTU single Zone Best Physique Competition held at Sri Sairam college of Engg - Bengaluru.

DEPARTMENT ACTIVITIES

MECHANICAL ENGINEERING DEPARTMENT

International Conference

Department had organized AICTE sponsored International Conference on "Recent Advances in Materials and Manufacturing (ICRAMM-2019)" during 12-14 Sept., 2019. About 120 research scholars from India and abroad have attended the International Conference.

- Dr. Karisiddappa, Vice-Chancellor, Visvesvaraya Technological University, Belagavi (Karnataka) was the Chief Guest of the Inaugural Function.
- Dr. Hendrik Simon Cornelis Metsellar, University of Malaya, Malaysia, Dr. Parag Bhargava, Indian Institute of Technology Bombay and Dr. V N Mani, Scientist F, C-MAT, Hyderabad, were the Guests of Honors.
- Shri S.C. Metgud, Chairman, Governing Body, KLE Dr. MSS CET, Belagavi presided over the Inaugural Function.



Publications of Faculty Members

C. V. Adake, Sachidananda T. G., S. A. Pachapuri, (2019), published a paper on "Influence of process parameters of electric discharge machining on MRR, TWR and Surface Roughness - a review" in AIP Conference Proceedings, American Institute of Physics (AIP). Vol. 2148, Issue 1.

D. C. Patil (2019), presented a research paper entitled "Quality and yield improvement of ductile iron casting by simulation technique", International Conference on Recent Advances in Materials & Manufacturing (ICRAMM) during 12-14 Sept., 2019 held at Department

of Mechanical Engineering, KLE Dr MSS CET, Belagavi.

S. F. Patil, Ravishankar N. Chikkanagoudar (2019) have presented a research paper entitled "Consistent derivation of non-constant material function for one dimensional shape memory alloy phenomenological model", International Conference on Recent Advances in Materials & Manufacturing (ICRAMM) during 12-14 Sept., 2019 held at Department of Mechanical Engineering, KLE Dr MSS CET, Belagavi.

S. B. Angadi, (2019). "Assessment of circularity error in drilling of cenosphere reinforced epoxy composites" in International conference on materials, manufacturing and machining (ICMMM), held at Bannari Amman Institute of Technology, Satyamangalam, Tamilnadu, during 8-9 March, 2019.

S. A. Pachapuri (2019) has presented a paper entitled "Influence of electrical discharge machining parameters on MRR, TWR and surface roughness of ceramics: A review" in International Conference on Advances in Mechanical Engineering & Nano technology (ICAMEN), during 8-9 March, 2019 held at Manipal University, Jaipur.

Santosh N. Nandurkar (2019) has presented a research paper entitled "Synergetic effect of rubber on the tensile and flexural properties of grapheme based epoxy-carbon fibre hybrid nanocomposites", International Conference on Recent Advances in Materials & Manufacturing (ICRAMM) during 12-14 Sept., 2019 held at Department of Mechanical Engineering, KLE Dr MSS CET, Belagavi.

Achievements of the Students

Students of V & VII semesters who have registered under SAE – India have exhibited "Regular Class - Balsa Wood Air Vehicle" in SAE Aero Design Challenge 2019, held at SAE Southern Section in Chennai and secured 10th place out of 181 colleges participated.



Electronic and Communication Engineering Department

Students Academic Accomplishments

Project titled "**Vama Sansadhan Yantra-Technology to Ayurvedic Sciences**" in collaboration with Shri.B.M.Kankanwadi Ayurvedic Mahavidyalaya,Belagavi. Students Swati Pai, Priya Shirahatti, Chetan Patange and Santosh Hiremath along with their mentors Dr. Rajashri K. and Dr. Sheela Kore have won an incubation fund of Rs 20 Lakhs at the competition organized by Texas Instruments in collaboration with DST and IICDC 2018.



Shashidhar Kumbar, Sumedh Sollapur, Vaibhav Tubachi and Nikita Indi participated in student project program (SPP). The project titled “Wireless safe and secured driving system V.3” was selected for exhibition by KSCST held at KLE Dr.MSS College of Engineering and Technology on 26th and 27th of July 2019.



Sadhana J., Aishwarya Patil, Keerthi H. and Gouri participated in the students project programme during the year 2018-19 and completed the project titled, “Women Safety Patrolling Robot” held at KLE Dr.M.S.Seshgiri college of Engineering and Technology, Belagavi on 26th and 27th July 2019. This project is supported by DST, Government of Karnataka and DST, Government of India

The presentation competition held for the first time on the eve of Engineers Day on the topic “Future Technology 2K50 and Role of Engineers” in which 3rd Sem students Vinayak and Vaishnavi won 2nd place, 5th Sem students Shrirang and Akshata done very well and staff team lead by Arun Tigadi and Vijay Rayar won 1st place. EC department got General Championship.



In-house competitions / Activities/ Guest lectures

Conducted Two Days hands-on workshop on “Image Processing and Machine Learning Applications”. The concepts of image processing with Python and machine learning applications were delivered by Sujata N. Patil and Shweta Madiwalar.



The department had organized a 3-days Workshop on “Embedded systems and Internet of Things - IoT Using Tiva C Microcontroller”, from 19th to 21st October, 2019 in association with Texas Instruments- EdGate Technologies Pvt. The session was conducted by resource persons Mr. Jeevaprasath A. and Mr. Krishna Chaithanya T.



One day “Hands on session on CANoe Tool” was organized on 3rd October 2019 for final year students. Mr.Praveen Gundkal from Continental, Germany, Alumni was the resource person.



Three days training program on “C coding and basics of data structure” was conducted for final years students on 21st to 23rd July 2019. Rajshree Khanai was the Resource Person for one day Workshop on “Application of Image Processing In Civil Engineering” held on 12th July-2019 at KLE Dr.MSS College of Engineering.



Placement Records



Rajmani Kulkarni

Allgo Embedded Systems
Package: 5.5 L/A



Srushti Aribenchi

Brillio Technologies Pvt. Ltd
Package: 4.5L/A

Sr.No	Company name	Number of students placed	Salary Package
01	KPIT	32	3.6 lpa
02	INFOSY	17	3.6 lpa
03	TCS	23	3.36 lpa
04	NTT-DATA	16	3.5 lpa
05	GLOBLE EDGE	2	3.5 lpa
06	MINDTREE	2	3.6 lpa

ACADEMIC ACHIEVEMENTS

NPTEL Courses Completed



Workshops/ Seminar/ FDP

The four day FDP workshop on “Technology & Entrepreneurial awareness on Industrial Microwave Heating” was conducted from 15th to 18th July 2019 sponsored by TEQIP, VTU, Belagavi.



COMPUTER SCIENCE ENGINEERING DEPARTMENT

Students Academic Accomplishments



Ashutosh Jadhav – VII B.E.

“Yuvashilpi” contest organized by ABVP

• The final year project “EEG Based Thought Identification System” of students Darshan Honagekar, Prasad Patil, Prem Ukkoji, Rutikraj Jangle received as Best Innovative Project award by VTU with Financial assistance of Rs. 5000/-. The project was guided by Geeta Navalalyal.

• The final year project “Text Syntheses and Learning with LSTM RNN” of students Deepa Pai, Rushika Patil, Samarth Halyal, Shubham Pai received as Best Project award by VTU with Financial assistance of Rs. 5000/-. The project was guided by Shashidhar Halligerimath.

Sports Achievement College level



Balaji Vanaki – III B.E.

• Mr. Balaji Vanaki of III semester B.E. won 2nd Prize in “Badminton” & 3rd Place in “Athletics” in “Chakravayuh” tournament held at Belagavi on 27th September, 2019 organized by Rotaract Club, Belagavi.

Sr.No	Company name	Number of students placed	Salary Package
01	TCS Digital	01	7.0 lakhs
02	TCS Ninja	34	3.36 lakhs
03	TCS Enginex	01	3.36 lakhs
04	Global Edge	06	3.0 lakhs
05	Allgo India	04	5.50 lakhs

Conferences, Publications and Presentations

- V. S. Malemath, Maitri Joshi (2019), “Detection of Oral Cancer and non Cancer from Microscopic Biopsy Images Using Image Processing Techniques”, Paper id-2014, International Journal of Engineering Applied Sciences and Technology, Vol. 1, No. 8, Pages 1-6.
- Shivanand Patil, Shilpa Jalli (2019), “Text Extraction from Skewed Text Lines”, International Journal of Engineering Applied Sciences and Technology, Vol. 1, No. 8, Pages 1-6.
- Sushma Chaugule, Rashmi Patil (2019), “Pose Estimation for Skeleton Detection”, International Journal of Engineering Applied Sciences and Technology, Vol. 1, No. 8, Pages 1-6.
- Uma Hombal presented a paper entitled “An Effective Security Protocol for GDS (Group Data Sharing) in Healthcare Cloud Environment” at the 4th International Conference on Communication and Electronics Systems (ICCES 2019) organized by PPG Institute of Technology during 17th to 19th July 2019 at Coimbatore, India.

In-house competitions / Activities/ Guest lectures



A technical talk on “Introduction to Block-Chain” delivered by Prof. Ravindra Dastikop of SDM CET, Dharwad on 4th October 2019. Faculty members of CS & other department attended the talk.

Workshops/ Seminars/ FDP



Conducted two days hands on workshop on “Advanced Java Programming” for V semester students. The workshop motivates the students to start implementing the “Mini Project Ideas” Concepts of Java Swing and JDBC applications delivered by Abhinandan Shirahatti.

CHEMICAL ENGINEERING DEPARTMENT

Departmental Activities

Inauguration of ACES

The inauguration of activities of Chemical Engineering Association was held on 27th September 2019. The Chief Guest of the event was Mr. Ajit Bagoji, Process Manager, Hindalco Industries Ltd., Belagavi. His talk covered importance of academics and learning to acquire knowledge, Participation in co-curricular activities, application of knowledge to day to day problems, importance of networking with professionals.



CMOS VLSI Design.



“Pick and Speak” event was organized for departmental students on 13th September 2019. Students spoke on various technical topics related to chemical engineering interest.

Publications/ Conferences:

1. Kadapure, Santosh Ashok, Poonam Kadapure, Pujari Manoj, Dodwad Raghvi, Sajjan Chanaveer, Shinde Shubham (2019), “Application of green solvent for biodiesel production from sesame oil”; Journal of Environmental Engineering and Science, Scopus : 1-7.
2. Kadapure, Santosh A., Girish Kulkarni, K. B. Prakash, and Poonam S. Kadapure (2019), “Mechanical and durability performance of sustainable bacteria blended fly ash concrete: an experimental study”, International Journal of Sustainable Engineering : (Taylor and Francis publications) 1-9.
3. Nandini M. Naik, Girish S. Kulkarni, K. B. Prakash (2019), “Compressive strength prediction of silica fume mixed concrete soaked in used engine oil with a mathematical model,” I.J. Engineering and Manufacturing, 1, 64-76.
4. S. N. Hosamane (2019), Neural network modeling and prediction of daily average concentrations of PM10, SO2, and NO2. "International conference on recent trends in image processing and pattern recognition", pp. 429-442, Springer, Singapore.
5. S. N. Hosamane (2019), presented paper entitled “Prediction of PM10 pollution using principal component based computational methods” at National Conference on Environmental Pollution Prevention and Control: Future Perspective (EPPC: FP-2019, 23-25) conducted by National Institute of Technology (NITK), Suratkal.
6. Pruthvi A Patil, Deepali Shah (2019), presented a paper on “Experimental investigation on biodiesel production assisted with nanoparticles as heterogeneous catalyst” at National Conference on Environmental Pollution Prevention and Control: Future Perspective (EPPC: FP-2019, 23-25) conducted by National Institute of Technology (NITK), Suratkal guided by Santosh A Kadapure.

Student Achievements

Student Research Work at Universiti Teknologi PETRONAS, Malaysia

Abhishek Jadhav, Namita Tamburi, Anusha C. H. successfully completed the Research Attachment Program (RAP) at Universiti Teknologi PETRONAS, Malaysia from 26th July 2019 to 26th September 2019. This RAP was instrumental due to MOU signed by U. B. Deshannavar and Prof. M. Ramaswamy, Professor, Chemical Engineering Department, Universiti Teknologi PETRONAS (UTP).

The topics for research work were

Abhishek Jadhav	Production of Bio-Hydrogen from Bi-reforming of Methanol
Namita Tamburi	Determination of SARA Fractions in Crude Oil using HPLC Analysis
Anusha C. H.	Investigation on Potential Applications of Gas Hydrate Inhibitors in Transmission pipelines



Namita T., Abhishek Jadhav, Anusha C. H. at Chemical Engineering Department, Universiti Teknologi PETRONAS (UTP), Malaysia

First Prize At National Level Technical Poster Presentation “Tech Post”

Sourabh Kshirsagar, Pundlik P More, Shankar P Patil, Valerian Silveira were awarded the first prize in a national level technical poster presentation “Tech Post” organized by Bharati Vidyapeeth College of Engineering, Navi Mumbai.



SOURABH
Kshirsagar



PUNDLIK
More



SHANKAR
Patil



VALERIAN
Silveira

Participation in National Level Poster Presentation

Sailee Gaonkar, Deepak B Hegde, Manjunath H, Muzawar Niyaz Massum, Paras S Navale, Pundlik P More, Sagar C Nivaragi, Shankar P Patil, Sourabh Kshirsagar, Surabhi Prabhu, and Valerian Silveira participated in “Tech Post” a national level technical poster presentation held on 18th September, 2019 organised by Bharati Vidyapeeth College of Engineering, Navi Mumbai.

Placement Records



Neha Naikoji
Tata Consultancy
Services Limited (TCS).

CIVIL ENGINEERING DEPARTMENT

Department Activities

One day workshop on image processing organised on 1st July 2019. Resource person Dr. Rajashri Khanai, Prof. Dept. of Electronics and Communication.



"Jal Diwas" an extension of Jal Shakti Abhiyan, a Government of India initiative -The Department of Civil Engineering celebrated the novel initiative on 22nd July 2019 to educate the staff and students on water conservation initiatives. Mr. Pradeep N.V, Managing Partner, Nisarg Consultants, Belagavi was the guest speaker. Dr. R.V Raikar, HOD, Civil Department was the president of the function.



Congratulations to Dr. R. V. Raikar and team for securing the Best Exhibition Award in 42nd KSCST Seminar and Project Exhibition of Students Project Programme held on 27th July 2019.



Stake Holders meet was conducted for Industry Institute Interaction on 01st August, 2019 .The main objective of this meet was to identify the gap between practical and theoretical knowledge in the curriculum.



First year students visit to Civil Engineering Department on 19th August, 2019 as a part of Induction Program, Head of Department Dr. R.V.Raikar presented the departmental information followed by interaction of students with Alumni, they also visited different Labs in Department.



Under the KLE FLOOD RELIEF INITIATIVE the students voluntarily laid a helping hand to flood affected people by donating eatables, clothes, bedsheets, blankets, etc. on 15th August, 2019



Induction Program for 3rd semester students regarding NBA Accreditation and Outcome Based Education was conducted by Head of Department Dr. R.V.Raikar followed by departmental information and interaction on 23rd August, 2019.



A Technical Talk on "AQUA SOLUTIONS: An Approach to Understand Our Water" was delivered by Dr. P. A. Ghorpade to create an awareness on how to conserve effective utilization of water in continuation of JAL DIVAS Celebration on 17th September, 2019 in Sir. M V Hall in Civil Department.



Introduction to Costex and Primavera software was given on 24th September, 2019. Importance and uses of these softwares was discussed in brief.



A Technical talk on "Cement Manufacturing Process And Development" was held on 20th September, 2019 by Er. Udaykumar S. G. (DGM) Zuari Cement. Dr. M Manjunath HOD, Dr. R V Raikar Dean R&D, and Staff member were present during the talk. Students gained the knowledge about cement manufacturing processes and its development.

Students of 7th Semester attended the "Asian Civil Engineering Coordinating Council (ACECC)" conference held on 27th September 2019 at Goa.

Dr. Pramod Savant, Chief Minister of Goa was present as chief guest. Experts and Delegates of ACECC from various parts of the world discussed about the improvements and advancements in civil field. Corruption and Geo-materials were discussed in brief.



Inauguration of CEA and IE(I) Students Chapter along with welcoming of fresher's for the year 2019-20, was held on 23rd September, 2019. Chief Guest Er. Praveen Hulji, Asst. Engineer, PWP & IWT, Suvarna Soudha sub division, Belagavi addressed the gathering. HOD Dr. M. Manjunath along with President of the function Dr. R. V. Raikar and Staff coordinator Prof. Nayana P. H. and Student Secretaries Tushar Khichadi and Mushkan Mukadam were present.

A one day Workshop on Total Station was conducted by Nikhil Jambhale to Diploma students of Government Polytechnic, Belagavi on 30th September, 2019.



Faculty FDP: Vijay H. Devar, Hanamath G. Hushikatti attended one week Faculty Development Program at IISc Bangalore from 4th to 9th August, 2019 on “Dynamic Traffic Assignment Techniques”.



National Sports Day Celebrated - 29th August, 2019

To commemorate the birth anniversary of hockey legend Major Dhyan Chand, National Sports Day was celebrated on 29th August, 2019. Chief Guest, Mr. Umesh Kalghatgi, National Swimming Coach inspired the students and staff to participate in Sports and narrated his journey as a trainer.

MASTER OF BUSINESS ADMINISTRATION



Wellness and Lifestyle management Session organized-6th September, 2019

Mr. Gaurav Warman, Life Coach and a motivational speaker from Mumbai was present as the guest. Addressing the gathering he said that he is on a 4350Kms journey from Kanyakumari to Kashmir on a bicycle from 15th August 2019 to positively impact millions of lives across India to live happy, successful and depression-free life.



Motivation talk by MBA Faculty – 30th July, 2019

Prayag Gokhale and Ameet Chate conducted a one day motivation camp for 500 PUC II students of Arts, Science and Commerce Domain of G. I. Bagewadi College, Nippani on 30th July, 2019.



Industrial Excursion to AKP Foundries - 24th August, 2019

Industrial Excursion to AKP Foundries was conducted on 24th August, 2019 for the third semester MBA students. The students learnt the nuances of Business Marketing and studied the various processes and procedures for Raw materials procurement, Production, Recruitment, Training and Suppliers relationships.