



K. D. K. COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS ENGINEERING



Vol- IV Issue : II

June- 2020

NEWS LETTER

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VISION: Endeavoring in developing technically competent, confident and socially responsible Electronics Engineers.

Mission:

- M1 -** Focus on teaching-learning process to spread in-depth knowledge of principles and its applications pertaining to Electronics Engineering and interdisciplinary areas.
- M2 -** To inculcate creative thinking through innovative and group work exercises which enhances the entrepreneur skills, employability and research capabilities.
- M3-** Provide ethical and value-based education by promoting activities addressing the societal needs.

Program Educational Objective (PEOs):

Graduates of Electronics Engineering shall:

- PEO1 -** Exhibit their knowledge and skills in analyzing and solving the real time engineering problems.
- PEO2 -** Be successful in careers, higher studies, research or entrepreneurial assignments.
- PEO3 -** Have exposure to emerging technologies, have opportunities to work as team member on multidisciplinary projects with effective communication skills and leadership qualities.

Program Specific outcome (PSOs):

The Program Specific Outcome (PSOs) of the Department of Electronics Engineering are given below:

- PSO1 -** Students shall have ability to design and deploy systems in Electronics, Communication, Embedded Systems, Automation, VLSI, Signal Processing, Robotics and IoT.
- PSO2 -** Students shall have aptitude towards design, development and research of innovation products / systems in Electronics solving real time, societal problems.

About Electronics Engineering Department:-

Electronics Engineering department has been established in 1999, approved by AICTE New Delhi and Government of Maharashtra, with an initial intake of 40 students. The intake was then increased to 60 from the session 2002-2003. and then 90. The department has good infrastructure for imparting training and education which includes well equipped laboratories. The department believes in over all development of students and is aligned in making students technically sound by organizing different technical seminars, workshop, guest lectures all throughout the year under departmental forum IETE Students Forum (ISF). Department undertakes R&D activities and consultancy assignments. The department has highly qualified staff with industrial experience. The students of the department also excel in the University Examinations and secure merit ranks every year. The head of the department is **Dr. P.D. Khandait**. Faculty members of the department have presented and published their research papers in several National and International Conferences and Journals.

International Summer School at Russia:

The students & staff of Electronics Engineering Department, K. D. K. College of Engineering visited **Southern Federal University (SFedU), Tanagerog, Russia** under Student & Faculty Exchange Program between International Universities. Two Students **Ms. Shreyasi Peshne** and **Mr. Vaibhav Bhawalkar** along with one Faculty **Dr. P. D. Khandait**, HoD, Department of Electronics Engineering visited the **SFedU, Russia** to participate in Summer School on “**Telecommunications and Computer Science**”. The summer training was arranged for three week from 25th June – 13th July’2019 and the advanced topics like Optical Fiber Communication, Cryptography, Image Processing, Networking were covered. They were also trained on recent and advanced software and instruments. The university also arranged two day excursion tour for them at Rostov-on-Don, Russia.



Industry Institute Interaction of Electronics Industries Association, Nagpur:



The K. D. K. College of Electronics Engineering has organized Industry Institute Interaction, where the industrialist of various industry were visited the college on 11.09.2019 and interacted with the faculties. Various Industrial person share their knowledge about technological development which prevails in industry, which should be available for the students for their benefit. These industrialists visited the Electronics Engineering Department and interacted the faculties. They also visited the project labs and e-yantra lab and adviced to maximize the use for the students. Industrialists Mr.Nishant Kalikar, President, Electronics Association, Nagpur; Sandip Dharwekar, Secretary, Electronics Association, Nagpur; Mr.M.S.Phirke, Mr.Harish Zambani, Mr.Rajesh Moharil, Mr .Sandeep Palamwar etc visited the Department

Workshop on CCNA-Routing & Switching (Communication Network):

Department of Electronics Engineering has organized a 3 day workshop on “CCNA-Routing & Switching (Communication Network)” from 19th September 2019 to 21st September 2019. During inauguration function Dr. D.P. Singh, Principal, KDKCE, Dr. A.M. Badar, Vice Principal KDKCE, Dr. P. D Khandait, Head Electronics Department KDKCE, Chief Guest Mr. P.M. Wasu, Director, CMS IT SERVICES, Dr. R.A. Burange, Co-ordinator of the workshop, were prominently present on dais. The workshop was attended by around 40 students. Workshop provided the complete knowledge of CCNA-Networking and its Switching devices with Hands-on practice on Cisco-Packet Tracer software; where the students designed their own computer networks and assign the IP address to it. As the

outcome of this workshop, the organizer arranged the test for the students and gave them the cash prizes to the Runner and Winner Group to motivate the students towards this type of events. All the faculty members and students had attended the workshop, which was overwhelming success.



Workshop on Embedded System and IoT:



Department of Electronics Engineering has organized one-week workshop on “Embedded Systems and Internet of Things (IoT)” in association with IoT Labz, Nagpur from 25th September to 1st October 2019. During the inaugural function of this workshop Dr. D. P. Singh, Principal, KDKCE, Nagpur, Dr. A. M. Badar, Vice-Principal, Dr. P. D. Khandait, HoD, Mr. Harish Zambani, Founder, IoT, Labz, Nagpur and Dr. (Mrs.) J. S. Gawai, co-ordinator of this workshop, were prominently present on the dais. Dr. P. D. Khandait gave the brief idea about this workshop and explained the importance of IoT in the present world during his welcome address. Dr. A. M. Badar, congratulate the department for organizing such technical activity and motivate the students to get maximum benefit of such workshop. The expert Mr. Harish Zambani conducted several sessions on interfacing of various I/O devices including lights, motors, sensors, with basic Embedded

Boards using Embedded C programming and Arduino Libraries. The interconnection of wireless devices using internet and embedded programming was also covered. The event was executed in groups among which several healthy competitions were conducted. About 40 students of 2nd year and 3rd year participated in the workshop. Initially the workshop was planned to organize for 3-days, but due to the overwhelming response of the students and the faculties, the workshop was extended for 2 more days and conducted for one-week. All the faculty members of the department gave their support to make this workshop successful. During the valedictory session, students participants gave their valuable feedback explaining how this workshop was beneficial for them and what they learnt during this one-week. Dr.(Mrs.) J. S. Gawai, Coordinator gave the vote of thanks.

Industry Visit (Rajasthan Transformer Jaipur):



The Electronics Engineering Department organized an Industrial visit for Third Year and Final Year students to Rajasthan Transformers Switchgear, Jaipur recently. All sixth semester and Eighth semester students along with Prof. R. B. Khule(Co-Ordinator), Prof. V. V. Chakole and Dr. J. S. Gawai visited to premises with an interest of linking the theoretical knowledge with the practical aspects of transformer. The industrial visit to this transformer manufacturing unit was very informative and students could actually see the assembly of cores, primary and secondary windings, the various types of insulation used in the windings, types of protection used, testing, etc., for 430/11kV air cooled and oil cooled transformers. Er. Gyan Singh, C.G.M. (Tech) Rajasthan Transformers Switchgear has explained details of the various types of insulation used in the windings, types of protection used, testing, etc., for 430/11kV air cooled and oil cooled transformers. Principal Dr. D. P. Singh, Vice-Principal Dr. A. M. Badar and Dr. P. D. Khandait, HOD Electronics, motivated to organize such industrial visit. K. D. K College of Engineering organizes visits regularly for students and faculties to provide them the exposure of practical implementation of technical knowledge. Shree Rajendraji Mulak (Ex-Minister, Maharashtra) Secretary, Mr. Yeshraj Mulak, Treasurer of BCYRC congratulated to Electronics Department.

Industrial Visit at HCL:-

The Department of Electronics Engineering has organized an Industrial visit at IT Industry HCL Technologies, Mihan, Nagpur on 18.02.2020 for the students of all semester i.e. IV Sem, VI Sem, and VIII Sem. The visit was headed by Prof. S. A. Bagal, where as Prof. V. N. Mahawadiwar and Prof. V. P. Akre were the supporting faculties for this visit. During this visit student learnt the industrial culture into IT sector and its opportunities. They also interact with the employees working there and asked them their queries.



Industrial Visit at Vasudhra:-



The Department of Electronics Engineering has organized an Industrial visit at VASUDHRA (A unit of AMUL Milk product), MIDC, Nagpur on 04.02.2020 for the students of all semester i.e. IV Sem, VI Sem, and VIII Sem. The visit was lead by Prof. S. A. Bagal, along with Dr. (Mrs.) J. S. Gawai. During this visit student experience the working environment and hygiene parameter at the industry. As this was the food industry the hygiene was maintained at highest level. The visited all the section of the industry like, manufacturing section, storage section, admin section, milk refinery section and all. The industry resource person explained and guide the student about the manufacturing process and explained how the Electronics Engineering students can use their technical knowledge to enhance the productivity. The visit was very fruitful and knowledgeable.

Industrial Visit to LOKMAT-Media and Printing Press:-



The Industrial visit at LOKMAT Media and Printing Press, Butibori, Nagpur has been organized for second year student of Electronics Engineering Department, KDKCE. There were 45 students of second year along with 2 faculty members. Prof. V.N. Mahawadiwar and Prof. S. A. Bagal lead the visit. They observed the technology used in Printing Process. The resource person from Lokmat-Media explained the use of Image Processing in Printing Fields. He also explained how the process of printing has become simple, smart and effective due to the use of Electronics by making it automated. Students also visited the actual printing machines and observed the printing process.

Various Events conducted in the Department

Amplifia-2K20:-

The Department of Electronics Engineering organizes the Intercollegiate Technical and Sport Activities under IETE Students Forum (ISF) named Amplifia-2K20 on 6th & 7th March'2020. Mr. Sudhir Ade ,Betiya shakti foundation was the chief guest for the function. Dr. D. P. Singh, Principal, KDKCE, Dr. A. M. Badar, Vice-Principal, KDKCE, , Dr. P. D. Khandait, Head, Dept. of Electronics Engg, Prof. R. B. khule, Faculty Incharge, ISF, Mr. Vaibhav Bhawalkar, President, ISF were prominently present on the dais. Mr. Sudhir Ade, explained the students about the importance of such activities in students life and safety of women during his address. Principal Sir explained about the achievement of the college and staff whereas Vice Principal shared his view about this activities and explained the benefits of it. Dr. P. D. Khandait gave his welcome speech. Dr. R. A. Burange, Prof. V. V. Chakole, Prof. S. A. Bagal, Dr. J. S. Gawai, Prof. V. N. Mahawadiwar, Mr. K. K. Ingole and Mrs. P. J. Rathod were also worked hard to make this event success.



Parents Teacher Meet: -



Department of Electronics Engineering, KDKCE, Nagpur organized a parent Teacher Meet on 24th august 2019. Around 75 Parents were present on this occasion along with the students. The meeting started with the welcome address by Head of the Department, Dr.P.D. Khandait. He briefed the gathering about the activities and also explained how the Department offers the best possible learning environment for the students. Subsequently student's attendance, academic performance and other special programmes have been briefed to the parents. Prof.V.N.Mahawadiwar (PTM Incharge), Prof.V.V.Chakole, Dr. R.A.Burange, Dr. Mrs J.S.Gawai, Prof.R.B.Khule, Prof.S.A.Bagal, Prof.K.K.Ingole (PTM Co-incharge) & all other faculty members of Electronics Engg. department were prominently present. Parents were delighted and gave their valuable Feedback.

Media Publications:-

